

# ALBERTA

DEPT. OF  
LANDS AND  
FORESTS

# ANNUAL REPORT

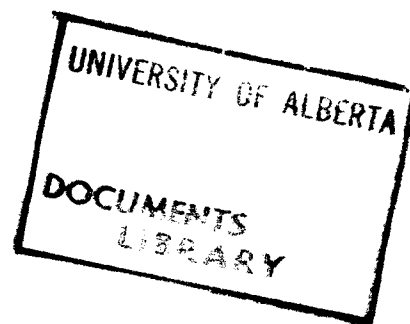
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1. The first part of the document is a list of references. The references are listed in alphabetical order of the author's name. The references are as follows:



**ANNUAL REPORT**  
OF THE  
**Department of Lands and Forests**  
OF THE  
**PROVINCE OF ALBERTA**  
FOR THE  
**FISCAL YEAR ENDED MARCH 31st**  
**1951**

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PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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1952

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To the Honourable J. J. Bowlen,  
*Lieutenant-Governor of the Province of Alberta.*

SIR:

I have the honour to submit the Report of the Department  
of Lands and Forests for the fiscal year ended March 31st, 1951.

I have the honour, to be, Sir,

Your obedient servant,

N. E. TANNER,  
*Minister of Lands and Forests.*

Edmonton, February 11, 1952.

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CHIEF OFFICERS  
DEPARTMENT OF LANDS AND FORESTS

March 31st, 1951

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Honourable N. E. Tanner.....	<i>Minister of Lands &amp; Forests</i>
John Harvie.....	<i>Deputy Minister Lands &amp; Forests</i>
H. G. Jensen.....	<i>Asst. Deputy Minister Lands &amp; Forests</i>
T. C. Rankine.....	<i>Departmental Solicitor</i>
V. A. Wood.....	<i>Director of Lands</i>
A. B. Spence.....	<i>Asst. Director of Lands</i>
E. S. Huestis.....	<i>Director of Forestry</i>
J. R. H. Hall.....	<i>Asst. Director of Forestry</i>
J. L. Jansen.....	<i>Chief Timber Inspector</i>
A. Earnshaw.....	<i>Radio Superintendent</i>
D. Buck.....	<i>Supt. Brazeau-Athabasca Forest Area</i>
R. T. MacKey.....	<i>Chief Ranger, Cypress Hills Forest Area</i>
E. S. Huestis.....	<i>Fish and Game Commissioner</i>
D. E. Forsland.....	<i>Superintendent of Game</i>
H. B. Watkins.....	<i>Superintendent of Fisheries</i>
T. W. Dalkin.....	<i>Director, Technical Division</i>
A. McCallum.....	<i>Administrative Accountant</i>
C. B. Kenway.....	<i>Registrar</i>
Miss G. A. M. Matheson.....	<i>Personnel Officer</i>
Mrs. L. M. Brown.....	<i>Stationery &amp; Supplies</i>

---

EASTERN ROCKIES FOREST CONSERVATION BOARD

Major General Howard Kennedy, C.B.E., M.C., B.Sc., Chairman	
G. Tunstell.....	<i>Deputy Chairman</i>
H. G. Jensen.....	<i>Member</i>
J. P. Alexander.....	<i>Administrative &amp; Liaison Officer</i>
F. V. Keats.....	<i>Supt. Clearwater Forest Reserve</i>
L. R. West.....	<i>Supt. Bow River Forest Reserve</i>
F. N. H. Lind.....	<i>Supt. Crowsnest Forest Reserve</i>



**REPORT**  
**OF THE**  
**Department of Lands and Forests**  
**1950 - 1951.**

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HONOURABLE N. E. TANNER,  
*Minister of Lands and Forests,*  
Edmonton.

SIR:

I have the honour to submit the second annual report of the Department of Lands and Forests for the fiscal year ending March 31st, 1951.

Respectfully submitted,

J. HARVIE,  
*Deputy Minister.*

January 26th, 1952.

## **Public and School Lands Administration**

### **REPORT OF THE DIRECTOR OF LANDS, V. A. WOOD**

During the fiscal year 1950-51 there were 89,640 items of outgoing mail from the Lands Division, compared to 78,029 for the previous fiscal year. This is an increase of approximately 15% and indicates an increase in the volume of business conducted by the Lands Division during the fiscal year under review.

Since the establishment of the regulations on February 27th, 1951, for the disposal of public lands in the St. Mary and Milk Rivers Development Project, four parcels of land have been sold to the Colonization Manager for the establishment of veterans.

One hundred and forty-seven veteran homestead leases and sixteen civilian homestead leases, making a total of one hundred and sixty-three leases, have now been issued in the government clearing and breaking projects. Thirteen units are available at present for applications and an additional fifty-four units are expected to be completed by the end of 1951.

The crops in block No. 1, in township 79, range 3, west 6th meridian, were badly damaged by hail, and in most cases were a total failure. Block No. 2, in townships 78 and 79, range 2, west 6th meridian, had some hail and early snow, and crop returns in this block were poor. In block No. 3, in township 78, ranges 1 and 2, west 6th meridian, the crops were fair to good. However, due to the early snow, some units in this block had to be spring harvested.

For many years it has been the policy of the Department of Municipal Affairs to transfer all tax recovery lands in improvement districts to this department for administration after the expiration of the redemption date. In 1949 it was decided to transfer to municipal districts all tax recovery lands that were originally in improvement districts but are now located in municipal districts. Vacant lands in this category have been transferred by order-in-council to the Department of Municipal Affairs for transmission to the municipal districts. Similarly, leased lands affected will be transferred as they become vacant.

By order-in-council No. 1616/50, dated December 27th, 1950, the County of Vulcan No. 2 was established and included part of Special Areas No. 4. All public lands within that part of Special Areas District No. 4, located within the County of Vulcan No. 2, have been transferred to this department by the Department of Municipal Affairs for administrative purposes.

The new Forest Reserves Act, established during the 1950 session of the legislature, is only applicable to lands that come within the scope of the agreement between Canada and the Province of Alberta for the administration of the Eastern Rockies Forest Conservation, and all other lands that were



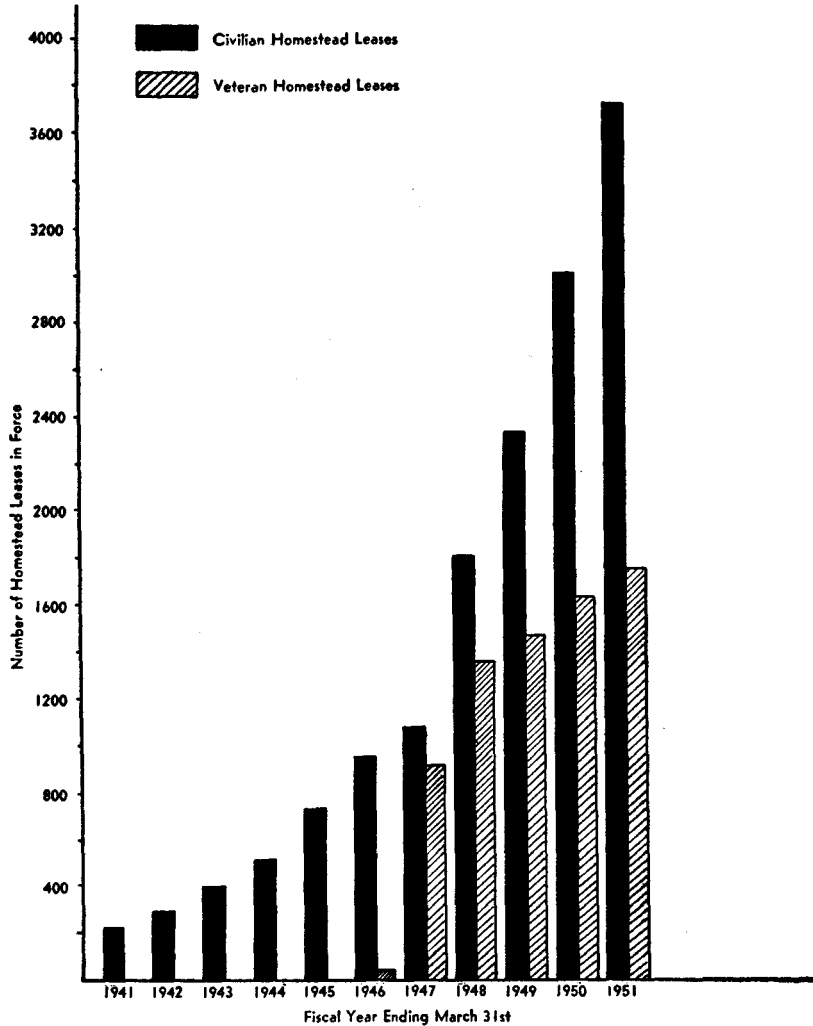
formerly within forest reserves are now administered under The Public Lands Act and the Forests Act.

A conference of the western provincial land directors was held in Edmonton from July 24th to July 28th, inclusive. Those attending were R. W. Gyles, Director of Lands, Department of Mines and Natural Resources, Winnipeg, Manitoba; A. M. Thomson, Director of Lands, Department of Agriculture, Regina, Saskatchewan; V. A. Wood, Director of Lands, Department of Lands and Forests, Edmonton, Alberta, and C. E. Hopper, Assistant Deputy Minister of Lands, Department of Lands and Forests, Victoria, British Columbia. This was the first conference of its kind to be held and proved very beneficial. Each member presented a paper on land administration in his province. A visit was made to the oil fields and to the government clearing and breaking project in the Peace River district.

The public lands in the newly-surveyed townships 81, ranges 7, 8, 9 and 10, west of the 6th meridian, were inspected by our soil investigators. Lands suitable for settlement have been advertised, and applications for homestead leases will be taken at Spirit River on the 9th and 10th of May, 1951.

A total of 1,490 veteran and civilian homestead leases were issued during the fiscal year, which was 246 more than the 1,244 issued for the previous fiscal year.

On March 25th, 1939, the granting of homesteads was discontinued and was replaced by the establishment of agricultural lease regulations. The first "agricultural lease," which is now designated "homestead lease," was issued on September 1st, 1940. Since that time the number of leases in force has been increasing steadily as is shown on the accompanying diagram.



#### *Orders-in-Council.*

The following are a few of the more important orders-in-council, pertaining to the Lands Division, which were passed during the fiscal year:

O.C. No. 695/50, June 12th, 1950.

Rescinded old tariff of fees and established a new tariff of fees and charges.

O.C. No. 737/50, June 20th, 1950.

Authorized a lessee of an agricultural lease or homestead lease acquired on or before 1st of April, 1950, after completion of the required duties in each of five years, to obtain notification to the land under lease upon payment of the crop share at the rate specified by the lease. Where the lease required payment

of a share of the crop in excess of five years, the lessee may in lieu of such requirements pay such sum of money as the Minister may prescribe in settlement of the undue share of the crop for the sixth and seventh crop years or such portion of those years as may not have been paid. Furthermore, all lessees are granted the benefits of Section 43 of The Public Lands Act as to the price to be paid for the purchase of the land notwithstanding the terms and conditions of the lease.

O.C. No. 738/50, June 20th, 1950.

Authorized that after lands have been cleared and broken pursuant to The Land Clearing and Breaking Projects Act and released for settlement, a period of fifteen days priority is granted for the acceptance of applications for homestead leases from eligible veterans, and following such priority, applications may be accepted from eligible civilians.

O.C. No. 917/50, July 17th, 1950.

Established regulations governing exploratory operations for minerals on public lands, statutory road allowances, public highways or roadways.

O.C. No. 976/50, August 5th, 1950.

Authorized the granting of an easement or easements without cost to rural electrification associations incorporated under the authority of The Co-operative Associations Act, 1946, over, across and upon any public lands that may be required for the purpose of erecting and maintaining rural electrical transmission lines, together with poles and guy wires and anchors.

O.C. No. 1122/50, September 6th, 1950.

Grants the Minister of Lands and Forests authority to sell to the Colonization Manager, of the St. Mary and Milk Rivers Development Project, of Lethbridge, such vacant and available public lands as may be required, at the rate of \$3.00 per acre, subject to such terms and conditions as the Department of Lands and Forests may deem necessary; all sales to be subject to the provisions of The Public Lands Act.

O.C. No. 169/51, February 5th, 1951.

Amends O.C. 1028/49 by striking out paragraph (a) Section 2, of the regulations governing the leasing of road allowances in southern Alberta and substitutes therefor the following new clause (a): "The application for a lease must be made on the prescribed form and state the purpose for which the land is required. The application fee shall be equal to one year's annual rental up to a maximum fee of \$5.00. The application when completed may be filed with or forwarded to the Director of Lands, Edmonton, and must be accompanied by a deposit of \$2.00."

O.C. No. 308/51, February 27th, 1951.

Establishes regulations for the disposal of public lands in the St. Mary and Milk Rivers Development Project.

*Amendments to The Public Lands Act.*

There were several amendments pertaining to the administration of public lands, passed during the 1951 session of the legislature and contained in Chapter 68 of the Statutes of Alberta. The following are a few of the more important amendments which come into force on the 1st of July, 1951:

## Section 18, Subsection (6).

This new subsection authorizes the Minister to accept residence upon a small holding situated in the immediate vicinity of the leased land as homestead residence.

## Section 32, Clause (g).

This new clause makes a homestead lease liable to cancellation if the lessee sells or otherwise disposes of improvements purchased or created with financial assistance advanced under The Veterans' Land Act, 1942.

## Section 45, Subsections (3) and (4).

Subsection 3 requires each homestead lessee to pay a fee of twenty-five dollars to exchange their respective homestead leases. Subsection (4) provides for the exchange of credit for duties performed by a homestead lessee when homestead leases are exchanged.

## Section 63.

Rent and taxes on grazing lands outside of the special areas have been fixed at 12½% of the forage value of the land. Formerly, the rate was subject to change by the Lieutenant-Governor-in-Council.

## Section 73, Subsection (2), Clause (b).

This clause was amended to make it clear that the consent of the Minister to the assignment of a grazing lease can be obtained only if, among other things, the assignor has personally been in possession of the land for a period of not less than three years.

## Section 89a.

This new section authorizes the Minister to exempt a lessee from payment of a crop share for any period not exceeding three years following date of granting the lease if the lands are infested with noxious weeds.

## Section 100a.

This new section empowers the Minister to grant a right of entry for the purpose of geological and geophysical explorations upon public lands which have been leased and to withdraw from any lease lands which are found to contain minerals of value or which are found to be suitable for the development of water power.

Note: Sections 52, 80, 81, 82 and 85 of The Public Lands Act, which were repealed, pertain to specific types of leases. Similar provisions are now incorporated under Part IV of The Act (General), in Sections 94a, 94b, 100, 100b, 100c.

## Section 108, Subsection (1).

This subsection was amended and the reference to gold, silver, and other minerals contained in school lands is deleted as minerals are administered under The Mines and Minerals Act.

## Section 113, Clause (r).

This new clause authorizes the Lieutenant-Governor-in-Council to exempt any lessee from the residence and cultivation requirements of his lease during the time he is on active service in defence of Canada or as a member of the special forces of Canada.

The year 1950 was a very disappointing year to western farmers. At seeding time there was little reserve moisture in the soil, and with only light rainfall until July, the farmers had almost given up hope of a reasonable crop. Around the middle of July rainfall was abundant and by early August, the farmers had promise of one of the best crops ever known. Unfortunately, starting August 17th, frost swept back and forth over the growing crops, cutting the yield severely and damaging the quality. Also during harvest, untimely rains and later snow, covered the remaining unharvested crop, much of which remained on the ground until spring.

Seeding was general throughout Alberta from May 10th to May 15th, approximately two weeks later than last year. Wheat seeding was practically completed in all districts by June 10th. Coarse grain seeding was practically completed in Alberta by June 16th. Threshing was completed at most points by November 10th.

The average estimated yields for the 1950 crops are as follows:

Wheat .....	16.1 bushels per acre.
Oats .....	29.0 bushels per acre.
Barley .....	22.0 bushels per acre.

Because of the low grades of grain being harvested, the crop failure basis for 1950 was established as follows:

Wheat, rye, oats and barley, less than five bushels per acre.
Flax, less than three bushels per acre.
All other crops were considered a failure where the value of the yield was less than \$3.00 per acre.

*Grain Prices.*

The basic prices established by the Canadian Wheat Board for the 1950 crop year for No. 1 grades, at Fort William, were as follows:

Wheat .....	\$1.40 per bushel.
Oats .....	\$ .65 per bushel.
Barley .....	\$ .95 per bushel.

However, on February 1st, 1951, the Canadian Wheat Board declared on interim payment of 20c per bushel on wheat; 10c per bushel on oats, and 20c per bushel on barley.

In addition to current crop share settlements, the Department as landlord received \$705.95 patronage dividends on crop shares delivered prior to 1950.

The last annual report showed a balance of \$4,738.27 to be collected from the lessees in connection with Canadian Wheat Board adjustments for crop shares delivered direct to the elevator for the crop years 1945 to 1948. There is still \$420.08 outstanding in this connection. On October 14th, 1950, final payment on 1949-1950 oat and barley crops was announced, together with a schedule of rates. The average final payment on oats amounted to 27c per bushel and on barley 50c per bushel.

By Order No. 2089, dated April 26th, the Canadian Wheat Board was authorized to make a final payment of 8.341c per bushel on wheat sold during the period 1945-1949, inclusive. Cheques are beginning to arrive on this final payment and will be applied to the individual accounts as soon as possible. Figures covering these latter adjustments cannot be made available until such time as all items have been calculated.

As a result of the delayed harvest, approximately 15% of the accounts in connection with the departmental crop share were not paid by the end of 1950, and it will be necessary to get crop reports from the lessees and permittees in the spring and summer of 1951, when harvesting is completed.

#### *Sales of Land.*

During the fiscal year a total of 578 parcels of school and public lands, including 23 lots, were offered for sale by public auction throughout the province. Ninety-six of these parcels were public lands, and of this amount 58 parcels, including 8 lots, were sold. The policy was continued of not offering for sale lands located in the areas reserved from settlement and also of not offering for sale public lands other than tax recovery, or school lands which are located in the settlement area and are suitable under the homestead lease regulations. Some of the auction sales were held in very stormy weather. The auction sale to be held at Byemoor was cancelled as drifting snow made the roads impassable. The average purchase price received for the public and school lands sold by auction was \$13.15 per acre. This is less than last year but is considered satisfactory. The auction sales were not quite so well attended as in the previous year.

#### *Sub-Agencies.*

Public lands sub-agencies were maintained at Bonnyville, Lac La Biche, Peace River and Rocky Mountain House. The Office of Information, Calgary, was also continued. The Public Lands Sub-Agency at Athabasca was discontinued on August 15th, 1950, when Mr. M. C. Pittman, the Sub-Agent, was transferred to head office. The Public Lands Sub-Agency at Grande Prairie was discontinued January 10th, 1951, when Mr. J. J. E. Clarke was superannuated. Since the Grande Prairie Sub-Agency was closed, Mr. H. A. Brick, Sub-Agent of Public Lands, Peace River, has held temporary sub-agencies four days each month in Grande Prairie, and this arrangement appears to be very satisfactory.

A Public Lands Sub-Agency was opened in the Forestry Office at Edson on January 15th, with Mr. W. E. Lumsden in charge.

Mr. H. A. Brick, Sub-Agent of Public Lands at Peace River, held temporary sub-agencies for one or two days periodically during 1950, at High Prairie, Falher, Manning, Hines Creek, Valleyview, Cherry Point, Spirit River and Fort Vermilion. As these temporary sub-agencies have proven very satisfactory they will be continued at the places mentioned, and also at Grande Prairie, during 1951.

### *Inspections.*

The inspection work was carried out by nine permanent inspectors and two temporary inspectors. In addition, two agricultural students from the University of Alberta were employed temporarily during the summer months. During the winter and early spring, when unable to work in the field, the nine permanent and two temporary inspectors were preparing lists of land to be offered for sale by public auction and doing other office work. They also conducted the auction sales of school and public lands throughout the province.

The following is a summary of field inspections:

#### SOIL SURVEY:

Requests outstanding April 1st, 1950	
Approximate number of parcels of land .....	842
Requests called for during fiscal year,	
(Number of parcels) .....	2,110
Reports received during fiscal year,	
(Number of parcels) .....	1,897
Reports outstanding at March 31st, 1951.	
(Number of parcels) .....	955

#### GENERAL, GRAZING AND SCHOOL LANDS:

Requests outstanding April 1st, 1950	
Approximate number of parcels of land .....	1,724
Requests called for during fiscal year,	
(Number of parcels) .....	3,379
Reports received during fiscal year,	
(Number of parcels) .....	3,219
Reports outstanding at March 31st, 1951.	
(Number of parcels) .....	1,844

In addition to the above, 454 soil reports were made in connection with the newly-surveyed lands in the Blueberry Mountain area and 530 grazing reports were made in connection with the carrying capacity in the east-central section of the province. Commencing this year, the number of requests for reports and reports received represent the number of parcels of land. This accounts for the increased number of lands inspected, etc., over previous years.

As in former years, a considerable number of requests outstanding accumulated during the winter and spring when the inspectors were not in the field.

### *Collections.*

The Inspector of Collections was in the field from April 17th until about December 18th, when bad roads and weather conditions prevented further travel.

Approximately 658 calls were made, including inspections, in connection with applications for renewal cultivation leases. Several weeks were spent at Wanham visiting settlers on the government clearing and breaking project. However, results were disappointing as crops were poor and early snow interfered with harvesting and threshing, and in many cases, the grain remained in the field. The collection inspector also assisted in conducting auction sales of land during late winter and early spring. During the year the sum of \$42,010.47 was collected. Although numerous grain storage tickets were collected, these are not included in the sum collected.

The following is a summary of other business transacted:

#### ACCRUED AREA LEASES.

	Number	Areas in Acres
Leases in force at April 1st, 1950 .....	662	43,539.67
Leases issued during fiscal year .....	141	7,678.41
Leases cancelled during fiscal year .....	74	4,972.55
Leases in force at March 31st, 1951 .....	729	46,245.53

#### HOMESTEAD LEASES—CIVILIAN.

Leases in force at April 1st, 1950 .....	3,001	642,379.00
Leases issued during fiscal year .....	1,156	286,055.56
Leases cancelled during fiscal year .....	359	83,633.03
Leases patented during fiscal year .....	96	18,502.14
Leases in force at March 31st, 1951 .....	3,702	826,299.39

#### HOMESTEAD LEASES—VETERAN.

Leases in force at April 1st, 1950 .....	1,625	434,803.93
Leases issued during fiscal year .....	334	93,711.57
Leases cancelled during fiscal year .....	211	59,310.53
Leases in force at March 31st, 1951 .....	1,748	469,204.97

#### LICENSES OF OCCUPATION.

Licenses in force at April 1st, 1950 .....	168	4,140.31
Licenses issued during fiscal year .....	46	903.78
Licenses cancelled during fiscal year .....	5	298.92
Licenses in force at March 31st, 1951 .....	209	4,745.17

#### MISCELLANEOUS LEASES.

Leases in force at April 1st, 1950 .....	176	10,737.79
Leases issued during fiscal year .....	28	198.59
Leases cancelled during fiscal year .....	17	1,327.13
Leases in force at March 31st, 1951 .....	187	9,609.25

#### TOWNSITE LEASES.

Leases in force at April 1st, 1950 .....	1	.....
Leases issued during fiscal year .....	0	.....
Leases cancelled during fiscal year .....	0	.....
Leases in force at March 31st, 1951 .....	1	.....

#### MINERAL SURFACE LEASES.

Leases in force at April 1st, 1950 .....	12	17,611.34
Leases issued during fiscal year .....	0	.....
Leases cancelled during fiscal year .....	0	.....
Leases in force at March 31st, 1951 .....	12	17,611.34

#### FUR FARM LEASES.

Leases in force at April 1st, 1950 .....	6	1,016.60
Leases issued during fiscal year .....	0	.....
Leases cancelled during fiscal year .....	1	20
Leases in force at March 31st, 1951 .....	5	996.60

#### CULTIVATION LEASES.

Leases in force at April 1st, 1950 .....	563	100,920.68
Leases issued during fiscal year .....	59	10,086.49
Leases cancelled during fiscal year .....	74	12,869.46
Leases in force at March 31st, 1951 .....	548	98,137.71

#### PUBLIC LANDS SALES.

Sales in force at April 1st, 1950 .....	442	44,259.29*
Sales granted during fiscal year .....	200	14,551.09
Sales cancelled during fiscal year .....	4	332.23
Sales patented during fiscal year .....	124	6,169.08
Sales in force at March 31st, 1951 .....	514	52,319.07



## ROAD ALLOWANCE LEASES.

	Number	Areas in Acres
Leases in force at April 1st, 1950 .....	112	2,222.82*
Leases issued .....	282	13,783.36
Areas added to existing leases .....		31.00
Leases cancelled .....	1	1.92
Decrease by withdrawal .....		2.05
Leases in force March 31st, 1951 .....	393	16,033.21

\* Corrected from last year's report.

## RIGHTS OF ENTRY.

Rights of Entry in force, April 1st, 1950 ....	132
Applications received .....	151
Rights of Entry cancelled .....	19
Rights of Entry granted .....	93
Applications pending .....	91
Rights of Entry in force, March 31st, 1951..	206

## NOTIFICATION FOR TITLE.

## (Homestead and Soldier Grant Entries)

Applications for Notification for Title on hand, April 1st, 1950 .....	98	
Applications for Notification for Title received during fiscal year .....	8	
Notifications for Title issued during fiscal year .....	41	
Applications on hand (checked and waiting completion) at March 31, 1951 .....	65	
Unpatented Homesteads and Soldier Grants .....	70	
Cancellations of Homesteads and Soldier Grants .....	5	
MISCELLANEOUS SQUATTER'S PERMITS issued during fiscal year .....	501	
MISCELLANEOUS PERMITS FOR BUILDING SITES on trap lines issued during fiscal year .....	197	
GRAZING PERMITS issued .....	1,837	344,188.85
CULTIVATION PERMITS issued .....	98	2,326.15
HAY PERMITS issued .....	1,431	
(TOTAL NUMBER OF TONS—13,776).		
HAY SEIZURES .....	Nil	
ASSIGNMENTS REGISTERED (leases, permits and sales) .....	243	

## GRAZING

The average price for all grades of cattle, except fed calves, sold on the Calgary market during the period July 1st to December 31st, 1950, was 24.24c per pound, as compared with 16.03c per pound for the same period in 1949. In view of the increase in prices the rental and taxes for the period January 1st, 1951, to December 31st, 1951, on grazing leases and for the period April 1st, 1951, to March 31st, 1952, on grazing permits, was increased as follows:

	1950	1951
One head to 24 acres .....	16¾c	25¼c
One head to 32 acres .....	12½c	19c
One head to 40 acres .....	10c	15¼c
One head to 50 acres .....	8c	12c

The grazing rentals on a head tax basis for 1951 on provincial grazing reserves are as follows:

Horses.....	\$1.80 per head, per month
Cattle.....	\$1.50 per head, per month
Sheep.....	.12 per head, per month

Where no caretaker or other facilities are provided by the department the grazing rental on a head tax basis is as follows:

Horses.....	.60c per head, per month
Cattle.....	.50c per head, per month
Sheep.....	.10c per head, per month

There were twenty-one departmental grazing reserves and community pastures in operation and five community pastures in process of formation at the commencement of the fiscal year. During the year the department completed formation of the Cresthill Farmers' Community Pasture, the Dunn Lakes Community Pasture, The Lakes Community Pasture and the Chauvin District Community Pasture and issued leases. An uncompleted community pasture is located in the former Wainwright Buffalo National Park and formation will be in abeyance for some time due to the land being used for military purposes by the Department of National Defence. During the year the Cherry Grove Community Pasture was cancelled and there are now twenty-four grazing reserves and community pastures in operation.

The following is a summary of the grazing reserves and community pastures:

#### DEPARTMENTAL RESERVES (Permanent Caretakers)

##### *Vauxhall Provincial Grazing Reserve.*

The area was formerly 164,496.75 acres, but 242.5 acres were sold, leaving a net area of 164,254.25 acres. There are eighty-seven and three-quarter miles of fencing on the reserve. Additional help was employed during the summer for repairing fences.

The allotment system described in last year's report has worked out very well. Forty-four permits were issued for the grazing of 915 cattle and 2 horses on the area reserved for a community pasture, which is under the supervision of a caretaker.

##### *Twin River Provincial Grazing Reserve.*

This reserve covers an area of 21,380 acres, with twenty-four and one-half miles of fencing. Forty permits were issued for the grazing of 1,302 cattle and 16 horses. The caretaker was resident on the reserve during the entire grazing season.

#### RESERVE HANDLED BY ASSOCIATION (Association responsible for upkeep and care of the stock).

##### *Tulliby Lake Provincial Grazing Reserve.*

Area 22,000 acres. One permit was issued for the grazing of 250 cattle.

#### GRAZING RESERVES UNDER LONG TERM LEASES BY ASSOCIATIONS

Cattle River Reserve .....	6,318 acres
Fir Grove Reserve .....	3,750 acres
Ross Lake Reserve .....	4,473 acres
Barnwell Reserve .....	5,467 acres
M.D. of Eureka Reserve .....	3,993 acres
Pipeline Reserve .....	23,175 acres
Many Island Reserve .....	17,652 acres
Hilda Reserve .....	26,350 acres
Bluefield Reserve .....	11,602 acres
M.D. of Forty Mile—Bow Island Reserve .....	24,366 acres
Bowell West Reserve .....	8,211 acres
Rocky Coulee Reserve .....	4,432 acres
Drowning Ford Reserve .....	33,069 acres
Blackfoot Reserve .....	24,614 acres
Nemiscam Reserve .....	4,781 acres
Comrey Reserve .....	29,247 acres
Poll Haven Reserve .....	10,462 acres

Cresthill Farmers Reserve .....	14,271 acres
The Lakes Reserve .....	1,907 acres
The Chauvin District Reserve .....	1,113 acres
The Dunn Lake Reserve .....	3,596 acres

Lands that were within forest reserves are now administered by the Lands Division and as a consequence this division is now responsible for the issuance of head tax permits for the grazing of stock in the Brazeau-Athabasca area.

On the formation of the County of Vulcan No. 2 previously mentioned, twenty-one long term grazing leases comprising 43,768 acres, were transferred to this division for administration.

At the request of the Colonization Manager, St. Mary and Milk Rivers Development Project and in accordance with The Public Lands Act, twelve grazing lessees, whose lands are required for irrigation purpose, have been given a one year's cancellation notice in connection with their grazing leases covering an area of 25,415.65 acres.

#### LONG-TERM GRAZING LEASES

Leases in force April 1st, 1950 .....	1,917	2,787,653.00
Leases issued .....	165	107,202.00
Areas added to existing leases .....		11,000.00
Transferred from Special Areas .....	21	43,768.00
Leases cancelled .....	105	41,838.00
Decrease by withdrawal .....		28,309.00
Total number and area of existing leases....	1,998	2,879,476.00

During the fiscal year a further investigation was made on the carrying capacity of all the public lands in townships 38 to 45, inclusive, ranges 6 to 9, inclusive; townships 38 and 39, range 10; township 38, range 11; townships 46 to 56, inclusive, ranges 1 to 9, inclusive, lying south of the North Saskatchewan River, all west of the 4th meridian. Due to the various types of soil in these areas it was decided to set the carrying capacity of each parcel in accordance with the report.

Details pertaining to the revenue in connection with the administration of public lands may be found in the report of the Accounting Division of this department.

Note: The term "Leases cancelled during fiscal year" includes leases which expired.

#### SCHOOL LANDS

During the fiscal year 482 parcels of school land were offered for sale by public auction throughout the province, and as a result 364 parcels were sold. This is quite a decrease from last year. The highest price received for a parcel of school land was \$60.00 per acre. The amount collected on new school land sales during the fiscal year was \$174,807.26.

The total revenue derived from school land sales accounts during the fiscal year was:

Principal .....	\$318,620.30
Interest .....	30,056.66
Total .....	\$348,676.96

The following is a summary of other school land business transacted:

	No.	Area in Acres
<b>SCHOOL LAND SALES</b>		
Sales in force April 1st, 1950 .....	782	117,659.79
New sales during fiscal year .....	383	58,184.64
Sales cancelled during fiscal year .....	3	301.10
Sales patented during fiscal year .....	109	14,344.22
Sales in force at March 31st, 1951 .....	1,053	161,199.11
<b>MISCELLANEOUS LEASES</b>		
Leases in force at April 1st, 1950 .....	69	2,875.29
Leases issued during fiscal year .....	4	32.75
Leases cancelled during fiscal year .....	3	53.60
Leases in force at March 31st, 1951 .....	70	2,854.44
<b>LICENSES OF OCCUPATION</b>		
Licenses in force at April 1st, 1950 .....	46	507.37
Licenses issued during fiscal year .....	3	6.64
Licenses cancelled during fiscal year .....	0	0
Licenses in force at March 31st, 1951 .....	49	514.01
<b>CULTIVATION LEASES</b>		
Leases in force at April 1st, 1950 .....	1,370	257,366.43
Leases issued during fiscal year .....	73	13,865.92
Leases cancelled during fiscal year .....	139	25,030.51
Leases in force at March 31st, 1951 .....	1,304	246,201.84
GRAZING PERMITS issued .....	1,545	409,510.97
CULTIVATION PERMITS issued .....	33	1.084
HAY PERMITS issued .....	228	
(TOTAL NUMBER OF TONS—2,545)		
HAY SEIZURES .....	1	
(TOTAL NUMBER OF TONS—50)		
ASSIGNMENTS REGISTERED (Leases, permits and sales) .....	119	

Statement of the revenue pertaining to school lands may be found in the report of the Accounting Division.

Note: The term "Leases cancelled during fiscal year" includes leases which expired.

## Forestry

### REPORT OF THE DIRECTOR OF FORESTRY, E. S. HUESTIS

#### *Fire.*

It was necessary in the annual report for this division for 1949-50 to report one of the worst fire seasons ever experienced in the Province of Alberta. It was shown in the report for that year that the settler, who was dependent on the forests for much of his living, caused 23.6% of the fires, which covered 42.2% of the forested area burned in that year.

In the spring of 1950 it was necessary for the department to change its policy in the handling of burning permits issued to settlers in order to avoid a repetition of this loss at the hands of the settler. Where settlers' burning permits had heretofore been issued by various agencies outside of the Forest Service personnel themselves, it was decided that during the spring of 1950 these permits would be issued only for Forest Service personnel and only after a careful inspection of the area to determine whether conditions were safe enough for the burning of slash or debris on the man's land. This change in policy paid off in 1950 when only 14.9% of the fires were caused by settlers and only 2.44% of the area was burned by reason of settlers' fires.

In making the above comparison, attention should be drawn to the fact that the fire hazard was as great in 1950 as it had been in 1949. In 1950 the spring breakup was slow and the fire hazard started about the middle of April and continued almost without a break until the middle of November in most areas of the province. There was little rainfall in any area until July, and in that month the rainfall was spotty, some areas not receiving enough to cut down the fire hazard to any great extent. In 1949 we had a total of 314 fires burning over a total acreage of 1,461,046 acres, whereas in 1950, with a similar fire hazard throughout the year, we had only 248 fires with a total acreage burned of 705,687 acres.

To assist in the policy of the department in carefully issuing burning permits to settlers, an intensive fire prevention campaign was carried out in the spring of 1950 over the radios throughout the province and through daily and weekly newspapers. In addition to this, our Forest Service personnel were able to contact all applicants for burning permits and explain to them the best methods of burning and the precautions to be taken in the handling of their brush burning operations.

Previous reports of this division have explained that we have a system of lookout towers situated throughout certain portions of the forested areas of the province for the reporting of forest fires which occur in these areas. We are, however, still largely dependent on the co-operation and support of the public for the reporting of forest fires, so that action may be taken by our ranger staff. In addition, our ranger staff is constantly on the lookout for fires at all times, and the following statistics show

that the public and the rangers are still spotting the bulk of our fires, although, when our lookout coverage is complete over all forested areas, the number of fires spotted by lookouts will be increased materially.

NUMBER OF FIRES DISCOVERED BY DIFFERENT AGENCIES

General Public .....	74
Rangers .....	75
Lookout Towers .....	37
Railway Men .....	26

A review of the year's activities shows that the Forest Service made 194 prosecutions under the Forests Act, most of which were for carelessness in the handling of fires. Out of these, 182 persons were convicted, 2 charges were withdrawn, and 10 cases were dismissed.

*Timber.*

The report of this division for the previous year stated that for the second year in succession the production of lumber in the Province of Alberta had decreased from an all-time high of 390 million reached in 1947-48. In the year under review interest in lumbering operations was again revived and a new high record of 412 million feet was established. It is of interest to note that in the first year of provincial control of resources in 1931-32 the cut amounted to 51 million feet, ten years ago in 1940-41 the cut was 186 million feet, and for the present year with a cut of over 400 million feet, it shows a continual and rapidly growing interest in lumbering operations throughout Alberta.

*Forest Surveys.*

In November of 1949, an agreement was made with The Photographic Survey Corporation of Toronto to carry out aerial photography, base mapping and forest inventory of the forested areas within Alberta south of the 57th parallel. In order that the work of the company might be properly supervised it was necessary in the year under review to establish for the first time a Forest Surveys Branch of the Forests Division of this department. We were fortunate in obtaining a well-qualified forest engineer, namely, Mr. R. D. Loomis, from the Maritimes, who came to us with years of experience in forest survey work and the use of aerial photographs.

The forest surveys engineer immediately set up a small staff for the purpose of checking the work done by Photographic Survey Corporation. In addition, this branch has been able to help very materially in the increasing work required to inspect a large number of applications for timber berths and special timber permits. As soon as aerial photographs became available it was possible to have all applications for timber routed through the Forest Surveys Branch, where the photographs could be closely studied to determine the extent of the timber on the ground, having it delineated on a map and indicating to the inspector who would be making the ground cruise the best approach to the timber stand and a general indication of where such timber stand can be located on the ground in relation to the

land survey or prominent local features. In dealing with applications for timber beyond surveyed territory the assistance of aerial photographs is extremely valuable in locating blocks of timber in relation to known points, such as the confluence of two streams, the point where a stream enters a lake, or other features. The use of aerial photographs has saved a great deal of time in inspection operations in the field by our inspection staff.

During the year under review the Photographic Survey Corporation of Toronto interpreted aerial photographs covering 30,900 square miles; they made a field check on the ground of 23,550 square miles and completed 23,555 square miles of aerial photographs at 1,320 feet to one inch.

In addition to the work outlined above, it has been the function of the new Forest Surveys Branch to establish more accurate methods of cruising timber berths and to pass on this information to our inspectors in the field in order to get the greatest accuracy in all cruises of berths throughout the province.

#### *Radio.*

Most of the lookout towers throughout the forested area are equipped with radio for the purpose of communicating their findings to the ranger, inspector or superintendent as the case may be. The men manning these towers must be moved in early in the spring before the snow is off the ground, and where the towers are in remote areas it has, in some years, been extremely difficult to get the men in. The year under review was one of the most difficult we have encountered so far. In order to get one man into Nose Mountain Tower, south of Grande Prairie, a caterpillar tractor was used. When this tractor broke down a second one was dispatched and it, in turn, broke down. Eventually it was necessary to fly repairs to these two caterpillar tractors by government aircraft, and they were able to complete the trip to the tower.

In our previous year's report it was pointed out that our main radio station at Edmonton found it necessary to put in remote control stations for both transmitter and receiver. At the end of that fiscal year the work had not been completed but early in this year this installation was complete and in operation. The remote transmitter is now located at 152nd Street and 112th Avenue, approximately three airline miles from the operating point at 146th Street and 103rd Avenue. The receivers are located on the Cooking Lake Trail approximately seven air miles from the same point. In order to overcome possible telephone line failure between these points an emergency transmitter and receivers are maintained at the headquarters station.

The report of the previous year stated that the Eastern Rockies Forest Conservation Board had decided to instal 55 stations throughout the Eastern Rockies Forest Reserves and at Calgary, using VHF-FM. During the year under review an additional technician was obtained together with other assistance and a great deal of the work of the installation of these sets was carried out.

*Personnel.*

During the year forty employees of the various branches of the Forests Division left the service for one reason or another. In July of 1950 Mr. Walter Ronahan, who for many years had been senior clerk in the Forests Division, passed away and a tribute should be paid here to many years of faithful and untiring service to forestry in Alberta. In June one of our older timber inspectors, Charles Carter of Athabasca, was forced to give up his duties due to ill health. On July 15th Mr. F. G. Edgar, Forest Superintendent of the Bow River Forest Reserve at Calgary, retired at the age of 65. He had been with the department for over twenty-five years and had given very faithful and conscientious service throughout the years. In August one of our older rangers, Mr. T. F. Coggins of Brule, passed away. It is known that Mr. Coggins' illness and final passing were attributable in part to a hazardous winter trip that he made in the line of duty some years previously. In March of 1951 Timber Inspector V. W. Mitchell of Peace River found it necessary to give up his duties due to a heart attack, and we lost the services of a very capable inspector.

On July 1st Mr. J. R. H. Hall, Superintendent of the Clearwater Forest Reserve, with headquarters at Rocky Mountain House, was promoted to head office as Assistant Director of Forestry. His place was taken by F. V. Keats, who at that time held the position of inspector and auditor working out of Edmonton. At the same time, to replace Mr. Edgar who retired in July, Mr. L. R. West, Timber Administrator, was promoted to the position of Superintendent of the Bow River Forest Reserve, with headquarters at Calgary.

During the year two additional assistant timber inspectors were appointed, namely, W. E. Ferguson who was appointed to the position at Athabasca, and J. B. Roy to the position at Rimbey. We were also fortunate in securing the services of an experienced compiler, Mr. Gordon M. Smart, in our Forest Surveys Branch. The use of aerial photographs in survey work, being new to the Province of Alberta, required someone with experience in this type of work, and Mr. Smart's knowledge was very helpful.

*General.*

In last year's report mention was made of the fact that Wallace A. Delahey of Toronto had been employed by the department as a one-man commission to investigate forestry throughout the province. Mr. Delahey's report has now been received and is being studied by the department.



## FIRE SUPPRESSION

During the fire season of 1950 a total of 284 fires were dealt with as shown below in classes:

- 40 Class "A" or small fires (less than  $\frac{1}{4}$  of an acre).
- 55 Class "B" fires (over  $\frac{1}{4}$  acre up to 10 acres).
- 87 Class "C" fires (over 10 acres up to 500 acres).
- 66 Class "D" fires (over 500 acres).

## COMPARISON OF FIRE CAUSES BY PERCENTAGES

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
Campers .....	28.8	26.0	20.9	31.5	26.8	24.0	18.7	14.9	15.5	29.9	21.4	23.8
Smokers .....	5.0	4.8	2.2	3.3	7.5	6.5	8.8	5.5	6.6	12.5	9.6	10.1
Settlers .....	14.8	12.2	22.7	13.9	12.4	14.5	15.1	10.5	7.4	10.9	23.6	14.9
Railways .....	4.6	6.7	7.6	11.1	23.0	16.0	12.0	21.1	32.8	15.2	8.9	10.9
Lightning .....	4.0	2.8	1.6	.9	.4	3.4	6.0	4.4	4.1	3.8	6.8	8.9
Industrial Operations .....	1.4	.6	1.4	3.6	1.9	3.6	3.5	9.5	4.9	8.7	3.5	4.0
Incendiary .....	9.8	8.9	10.8	6.9	5.7	6.8	6.0	2.9	4.1	2.7	7.3	8.0
Public Works .....	.6	....	.2	.5	.4	....	.4	....	....	....	1.6	1.2
Unclassified .....	13.4	16.9	8.8	10.2	7.5	6.5	13.4	6.9	.8	.6	3.9	6.9
Unknown .....	17.6	21.1	23.8	18.1	14.4	18.7	16.1	24.3	23.8	15.7	13.4	11.3

COMPARISON OF FIRE LOSSES AND CAUSES BY PERCENTAGE  
FOR THE YEAR 1950

	Fire Causes	Merchantable Timber Losses	Total Acreage Burned
	%	%	%
Campers .....	23.8	45.6	47.57
Smokers .....	10.1	2.67	2.5
Settlers .....	14.9	1.5	21.12
Railways .....	10.9	.06	.08
Lightning .....	8.9	12.8	12.05
Industrial Operations .....	4.0	.03	.03
Incendiary .....	8.0	.61	2.17
Public Works .....	1.2	.02	.22
Unclassified .....	6.9	23.11	6.1
Unknown .....	11.3	13.6	8.16

## RAILWAY FIRE LOSSES, CALENDAR YEAR 1950

## CAUSES AND NUMBER OF FIRES:

Railway Causes—	
Locomotives .....	18
Employees .....	3
Sub-total .....	21
Other Causes—	
Campers and travellers .....	1
Settlers .....	1
Unknown .....	4
Sub-total .....	6
TOTAL .....	27

## NUMBER OF ACRES BURNED:

Slashing or old burn .....	Nil
Timber Land .....	36
Young Growth .....	44
Not forested .....	496.85
TOTAL .....	576.85

## LOSS:

Timber .....	\$112.50
Young growth .....	89.40
Forest Products .....	Nil
Other Property .....	Nil
TOTAL .....	201.90

SUMMARY SHOWING TOTAL NUMBER OF FIRES AND BURNT  
OVER AREAS FROM 1939 TO 1950 INCLUSIVE

Year	Total No. of Fires	Total Acreage	Not Forested	Net Acreage
1939 .....	499	429,139.25	159,774.50	269,364.75
1940 .....	313	474,244.25	108,597.50	365,646.75
1941 .....	445	1,355,424.50	459,475.00	895,949.50
1942 .....	215	325,815.75	182,208.25	143,607.50
1943 .....	265	515,149.25	409,503.50	105,645.75
1944 .....	325	722,658.00	273,186.25	449,471.75
1945 .....	284	216,736.50	128,263.50	88,473.00
1946 .....	275	272,283.50	179,731.00	92,552.50
1947 .....	122	80,060.75	46,894.75	33,166.00
1948 .....	184	293,216.59	185,491.00	107,725.59
1949 .....	314	1,461,046.90	552,184.65	908,862.25
1950 .....	248	705,687.05	233,508.95	472,178.10
Totals .....	3,489	6,851,462.29	2,918,818.85	3,932,643.44

ANNUAL SUMMARY OF FOREST FIRE LOSSES—CALENDAR YEAR 1950  
FIRES WITHIN FOREST RESERVES

UNIT	Number of Fires					LANDS AFFECTED							LOSS										SUPPRESSION COSTS		
						OWNERSHIP		AREA	CONDITION				TIMBER (MERCHANTABLE AND CUT-OVER)						Loss of Timber	Loss of Young Growth	Loss of Other Property	Total Loss	Ranger Service	Other Expenditure	Total
	Public	Private	Total	Mer- chant- able Timber	Cut- over Timber	Young Growth	Not Forested		S A L V A B L E			U N S A L V A B L E													
								Saw- Timber	Other	Depre- ciation	Saw- Timber	Other	Loss												
	A	B	C	D	Total	Acres	Acres	Acres	Acres	Acres	Acres	Acres	M. Ft. B.M.	Cords	\$	M. Ft. B.M.	Cords	\$	\$	\$	\$	\$	\$	\$	
Campers .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.85	.....	2.85
Smokers .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.28	.....	3.28
Settlers .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railways .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lightning .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Industrial Opt. ....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Incendiary .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Public Works .....	.....	.....	.....	1	.....	20	.....	20	.....	.....	.....	.....	.....	.....	60	200	330	.....	.....	.....	.....	.....	.....	.....	.....
Unclassified .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
TOTALS .....	5	.....	1	.....	6	20	.....	20	.....	.....	.....	.....	.....	.....	60	200	330	.....	.....	.....	.....	.....	.....	.....	.....

FIRES OUTSIDE FOREST RESERVES

Campers .....	7	21	14	16	58	330,145.75	5,319	335,464.75	58,431.5	12	131,282.75	69,211	166	2,439	8.15	51,939	552,462	61,081.40	347,899.75	591,542.95	.....	939,442.70	751.66	121,715.89	122,467.55
Smokers .....	2	3	9	10	24	17,043	573	17,616	3,386.5	200	3,341	10,588.5	120,045	22,048	120	15	20,934	10,988.63	10,811.63	11,365	25	22,201.63	497.45	11,995.13	12,492.58
Settlers .....	3	.....	15	19	37	138,661	10,380.75	149,041.75	1,926	2,515	49,716.75	93,214	205	9,160	1,959.25	674	7,926	25,473.75	15,159.90	180,423.75	2,515	198,098.65	719.13	57,853.38	58,572.51
Railways .....	6	12	9	.....	27	413.1	163.75	576.85	36	.....	44	496.85	.....	270	.....	.....	.....	4.40	112.50	89.40	.....	201.90	.....	.....	.....
Lightning .....	3	5	5	8	21	83,640.75	2,288	85,928.75	16,406.5	.....	.....	20,369.25	2,060	.....	.....	28,372	129,330	201,397	105,002	261,340	3,000	369,342	452.30	54,359.43	54,811.73
Industrial Op. ....	4	3	1	.....	8	208.5	10	218.5	26.5	37	145	10	.....	25	.....	.....	510	194.50	1,484.90	1,292.50	2,400	5,177.40	97.16	1,035.84	1,133.75
Incendiary .....	2	2	11	5	20	14,011	1,138	15,149	786	60	4,354	9,948	9,000	.....	9	2,039	12,827	19,516.32	8,286.43	20,007.50	40	28,333.93	4,575.94	10,185.57	14,761.51
Public Works .....	.....	.....	1	1	2	1,092	460	1,552	12	.....	885	655	.....	96	18	60	200	330	384	6,900	.....	7,284	97.91	1,035.84	1,133.75
Unclassified .....	4	2	7	4	17	42,252	282	42,534	29,570	.....	7,574	5,390	14	.....	5,240	360	151,560	30,555.02	86,921.52	58,994	.....	145,915.52	182.36	24,855.23	25,037.59
Unknown .....	4	7	14	3	28	54,987.35	2,598.10	57,585.45	17,422	1,790	14,747.1	23,626.35	791	50,654	11,600	372	83,163	457,747.25	491,161.50	127,807.25	.....	618,968.75	279.13	46,644.14	46,923.27
TOTALS .....	35	55	86	66	242	682,454.45	23,212.6	705,667.05	128,003	4,614	212,138.13	233,508.95	132,221	84,092	18,954.40	83,771	958,712	806,958.27	1,066,894.13	1,259,762.35	7,980	2,334,236.48	7,659.17	328,644.61	336,303.78

FIRES WITHIN AND WITHOUT FOREST RESERVES

Campers .....	8	21	14	16	59	330,145.75	5,319	335,464.75	58,431.5	12	131,282.75	69,211	166	2,439	8.15	51,939	552,462	61,081.40	347,899.75	591,542.95	.....	939,442.70	754.51	121,715.89	122,470.40
Smokers .....	3	3	9	10	25	17,043	573	17,616	3,386.5	200	3,341	10,588.5	120,045	22,048	120	15	20,934	10,988.63	10,811.63	11,365	25	22,201.63	500.73	11,995.13	12,495.86
Settlers .....	3	.....	15	19	37	138,661	10,380.75	149,041.75	1,926	2,515	49,716.75	93,214	205	9,160	1,959.25	674	7,926	25,473.75	15,159.90	180,423.75	2,515	198,098.65	719.13	57,853.38	58,572.51
Railways .....	6	12	9	.....	27	413.1	163.75	576.85	36	.....	44	496.85	.....	270	.....	.....	.....	4.40	112.50	89.40	.....	201.90	.....	.....	.....
Lightning .....	4	5	5	8	22	83,640.75	2,288	85,928.75	16,406.5	.....	48.53	20,369.25	2,000	.....	.....	28,372	129,330	201,397	105,002	261,340	3,000	369,342	452.30	54,359.43	54,811.73
Industrial Opt. ....	6	3	1	.....	10	208.5	10	218.5	26.5	37	145	10	.....	25	.....	.....	510	194.50	1,484.90	1,292.50	2,400	5,177.40	97.16	1,035.84	1,133.75
Incendiary .....	2	2	11	5	20	14,011	1,138	15,149	786	60	4,354	9,948	9,000	.....	9	2,039	12,827	19,516.32	8,286.43	20,007.50	40	28,333.93	4,575.94	10,185.57	14,761.51
Public Works .....	.....	.....	2	1	3	1,112	460	1,572	12	.....	885	655	.....	96	18	60	200	330	384	6,900	.....	7,284	97.91	1,035.84	1,133.75
Unclassified .....	4	2	7	4	17	42,252	282	42,534	29,570	.....	7,574	5,390	14	.....	5,240	360	151,560	30,555.02	86,921.52	58,994	.....	145,915.52	182.36	24,855.23	25,037.59
Unknown .....	4	7	14	3	28	54,987.35	2,598.1	57,585.45	17,422	1,790	14,747.1	23,626.35	791	50,654	11,600	372	83,163	457,747.25	491,161.50	127,807.25	.....	618,968.75	279.13	46,644.14	46,923.27
TOTALS .....	40	55	87	66	248	682,474.45	23,212.6	705,687.05	128,003	4,614	212,138.13	233,508.95	132,221	84,092	18,954.40	83,831	958,912	807,288.27	1,067,224.13	1,259,762.35	7,980	2,334,966.48	7,659.17	328,644.61	336,303.78

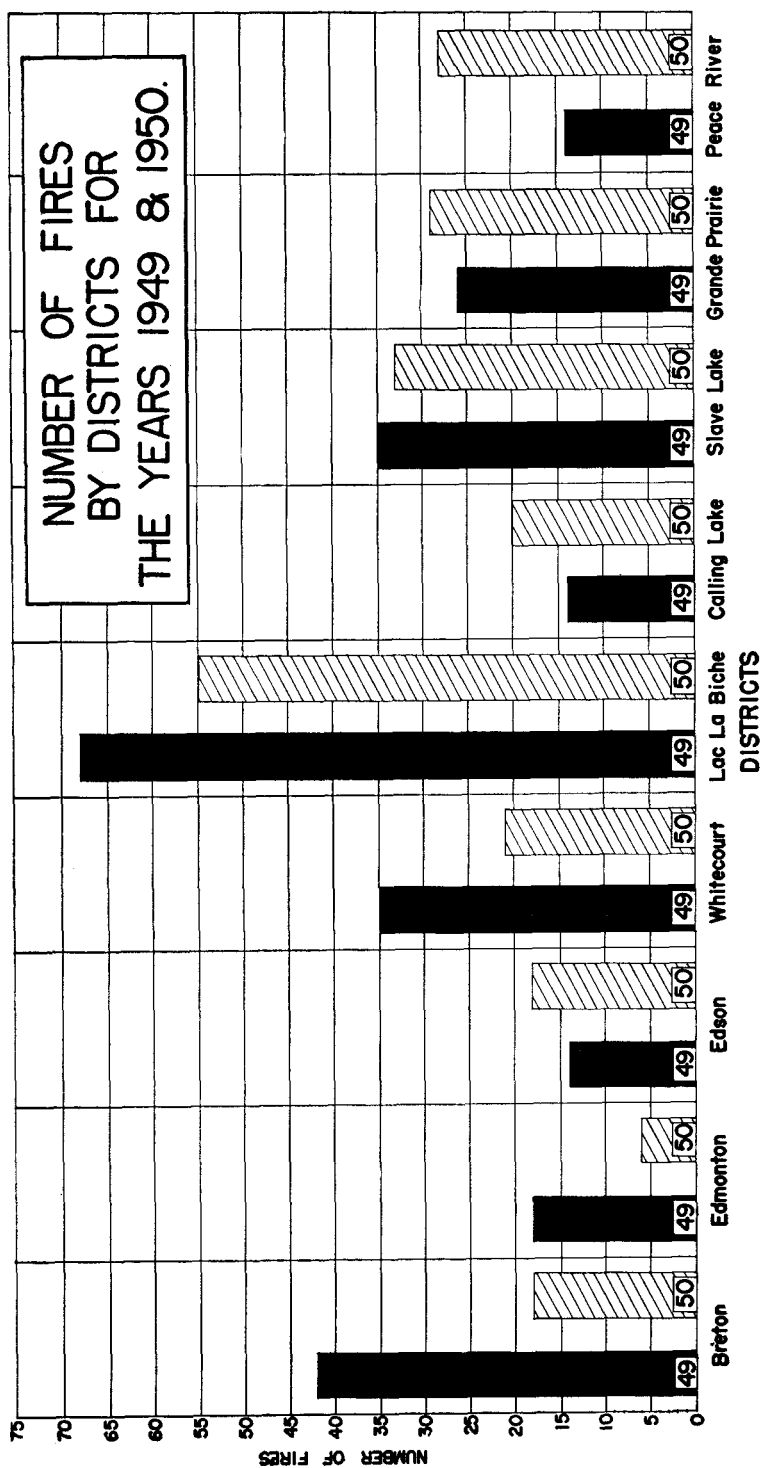
SUMMARY BY DIVISIONS

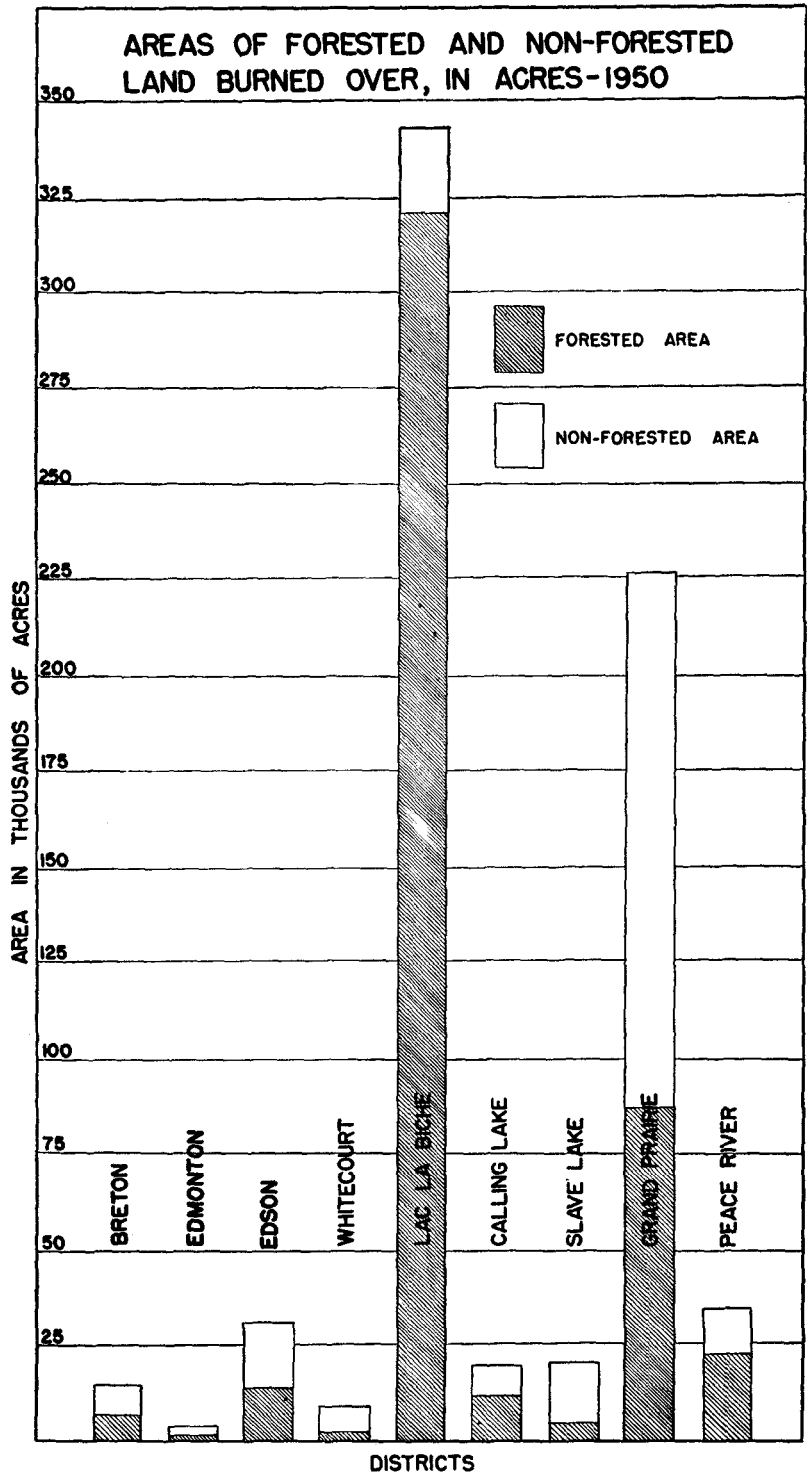
N.A.F.D. ....	30	54	86	66	236	682,454.45	23,202.6	705,657.05	128,003	4,614	212,138.13	233,498.95	132,221	84,091.75	18,954.40	83,771	958,712	806,958.27	1,066,893.93	1,259,762.35	6,580	2,333,236.48	7,565.54	328,633.06	336,198.60
Outside Reserves ..	5	1	.....	.....	6	.....	10	10	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	1,000	1,000	17.60	.....	17.60
Clearwater .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.64	.....	11.64
Bow .....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.35	.....	25.35
Crownsnest .....	3	.....	1	.....	4	20	.....	20	.....	.....	.....	.....	.....	.....	.....	60	200	330	330	.....	.....	39.04	11.55	50.59	50.59
TOTALS .....	40	55	87	66	248	682,474.45	23,212.6	705,687.05	128,003	4,614	212,138.13	233,508.95	132,221	84,092	18,954.40	83,831	958,912	807,288.27	1,067,224.13	1,259,762.35	7,980	2,334,966.48	7,659.17	328,644.61	336,303.78

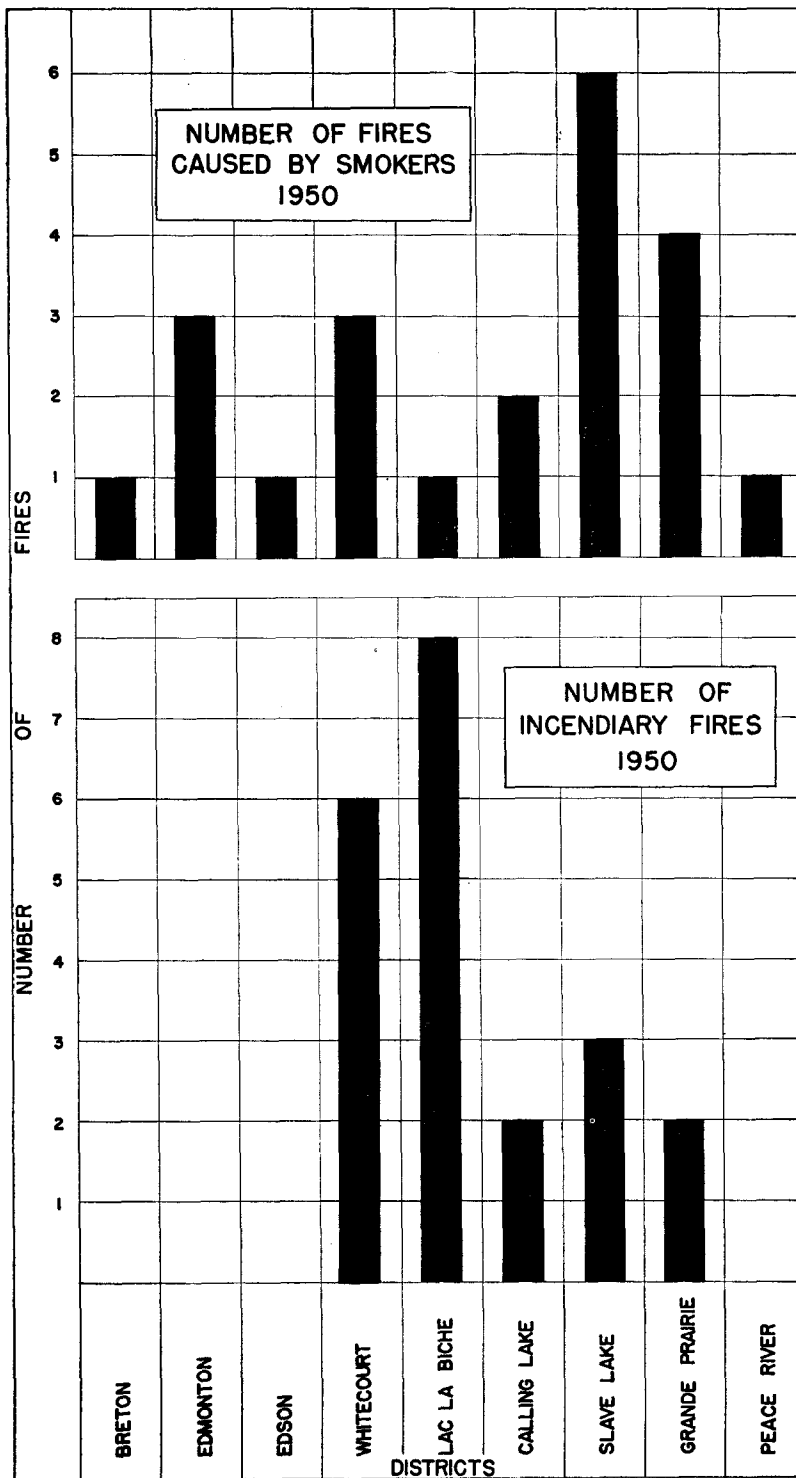


ANNUAL STATEMENT OF FIRES BY CAUSES, MONTHLY DISTRIBUTION, ETC.  
WITHIN AND OUTSIDE FOREST RESERVES, CALENDAR YEAR 1950

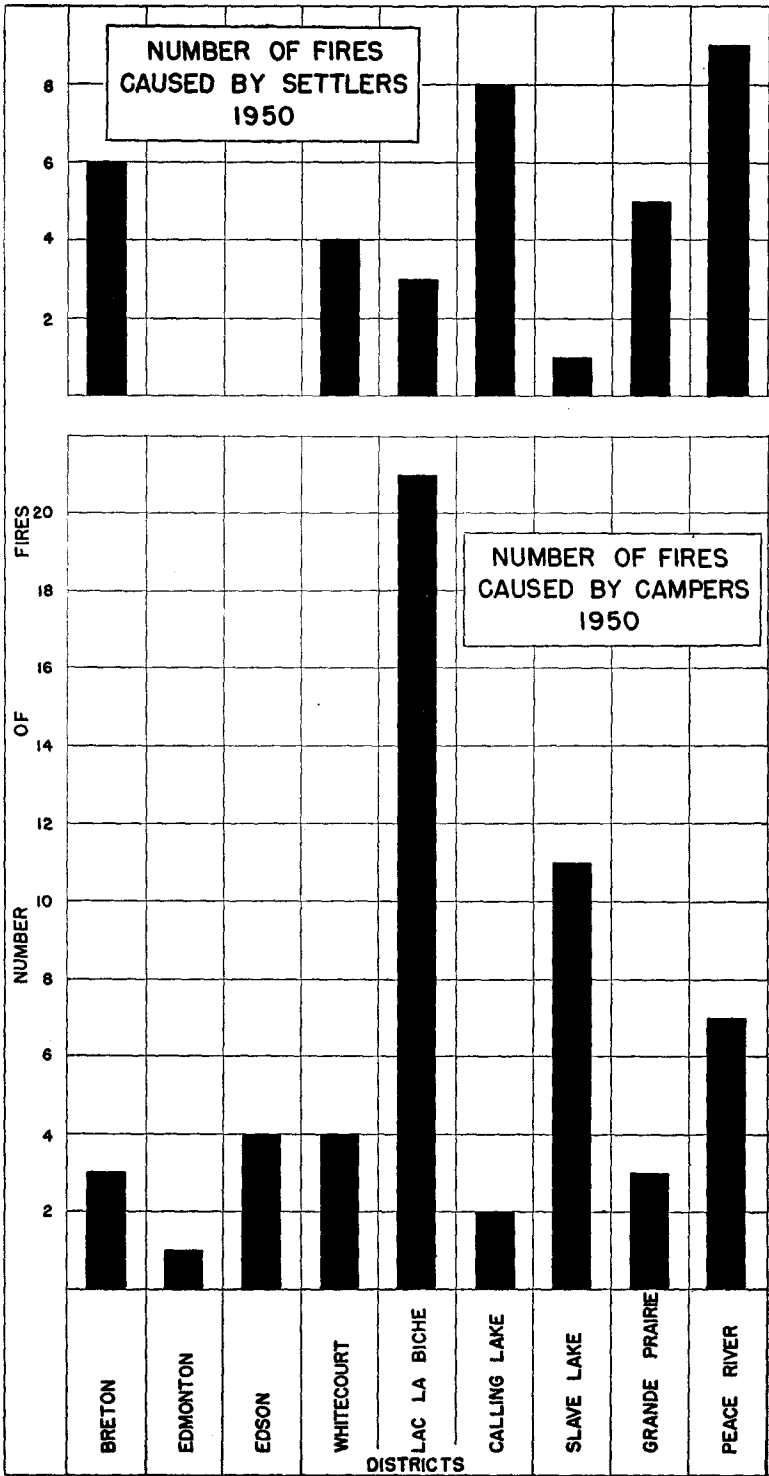
Cause	Number				P.C.	Damage \$	Area Acres	MONTHLY DISTRIBUTION												Fires Inside Forest Reserves		Fires Outside Forest Reserves			
								January	February	March	April	May	June	July	August	September	October	November	December	No.	Area Acres	No.	Area Acres		
Camp fires	8	21	14	16	59	23.8	939,442.70	335,464.75	1	...	...	...	5	9	10	8	9	14	3	...	...	1	...	58	335,464.75
Smokers	3	3	9	10	25	10.1	22,201.63	17,616.00	...	...	...	...	...	3	7	4	2	8	1	...	...	1	...	24	17,616
Settlers	3	...	15	19	37	14.9	198,098.65	149,041.75	...	...	...	...	2	9	6	2	2	16	...	...	...	...	27	149,041.75	
Railways	6	12	9	...	27	10.9	201.9	576.85	...	...	...	...	1	12	3	1	1	4	5	...	...	...	27	576.85	
Lightning	4	5	6	8	22	8.9	369,342	85,928.75	...	...	...	...	1	1	9	8	2	2	...	...	...	...	21	85,928.75	
Industrial Ops.	6	3	1	...	10	4.0	5,177.4	218.5	...	...	...	...	...	...	2	1	2	...	...	...	...	...	8	218.5	
Incendiary	2	2	11	5	20	8.0	28,333.93	15,149	...	...	...	...	2	5	8	3	...	...	...	...	...	...	20	15,149	
Public Works	...	...	2	1	3	1.2	7,284	1,572	...	...	...	...	...	1	1	3	...	...	...	...	...	...	2	1,572	
Unclassified	4	2	7	4	17	6.9	145,915.52	42,534	...	...	...	...	1	5	3	4	...	...	...	...	...	...	17	42,534	
Unknown	4	7	14	3	28	11.3	618,968.75	57,585.45	...	...	...	...	2	4	9	1	2	9	1	...	...	...	28	57,585.45	
TOTALS	40	55	87	66	248	...	2,334,966.48	705,687.05	2	...	...	...	14	49	58	32	20	61	12	...	...	6	20	242	705,687.05
Per Cent	16.2	22.2	35.0	26.6	100	...	...	...	0.8	...	...	...	5.6	19.8	23.4	12.9	8.1	24.6	4.8	...	...	2.4	...	97.6	...











**TIMBER CUT UNDER PERMIT ALBERTA FOREST RESERVES  
FISCAL YEAR 1950-51**

	Crowsnest	Bow River	Clearwater	Total
No. of permits .....	34	61	13	108
Round timbers (lin. ft.) .....	609,070	538,504	221,216	1,368,790
Fuelwood (cords) .....	434	107	668	1,209
Lumber (ft. B.M.) .....	164,750	17,000	2,067	183,817
Poles and Piling (lin. ft.) .....	11,895	3,500	60	15,455

**TIMBER OPERATIONS ON ALBERTA FOREST RESERVES  
FISCAL YEAR 1950-51**

	Crowsnest	Bow River	Clearwater	Total
No. of active operations .....	11	8	21	40
Fuelwood (cords) .....	1,180	.....	22	1,202
Lumber (ft. B.M.) .....	15,672,880	1,163,614	11,204,173	28,040,667
Round Timber (lin. ft.) .....	1,345,455	307,409	185,616	1,838,480
Mine Ties .....	.....	.....	.....	.....
Poles and Piling (lin. ft.) .....	4,999	.....	.....	4,999
Pulpwood (cords) .....	.....	.....	.....	.....
Railway Ties (pieces) .....	.....	.....	.....	.....
Slabs (cords) .....	1,129 ½	22 ½	.....	1,152

**TIMBER OPERATIONS ON LANDS OUTSIDE OF FOREST RESERVES  
FISCAL YEAR 1950-51**

	Timber Berths	Special Timber Permits	Total
Active Operations .....	591	339	930
Fuelwood (cords) .....	1,118 ½	.....	1,118 ½
Lath (pieces) .....	2,729,900	.....	2,729,900
Lumber (ft. B.M.) .....	350,485,581	20,687,311	371,172,892
Round Timbers (lin. ft.) .....	1,260,497	102,738	1,363,235
Poles and Piling (lin. ft.) .....	119,454	184,007	303,461
Pulpwood (cords) .....	1,054,266	111,40	1,165,666
Railway Ties (pieces) .....	1,094,971	31,737	1,126,708
Slabs (cords) .....	379 ½	1 ½	381

**SETTLERS' TIMBER PERMITS**

Number of Permits .....	3,757
Round Timber for Mines, Fencing, Corrals, Building logs, etc. (lin. ft.) .....	4,278,713
Lumber (ft. B.M.) .....	19,966,968
Fuelwood (cords) .....	6,688
Pulpwood (cords) .....	38,374
Railway Ties (pieces) .....	Nil
Shingle Bolts (cords) .....	3
Shingle (pieces) .....	35,000
Boxwood (cords) .....	50
Slabs (cords) .....	Nil
Timber Seizures (number) .....	167

SUMMARY OF TIMBER OPERATIONS ON PROVINCIAL LANDS AND ALBERTA FOREST RESERVES  
FISCAL YEAR 1950-51

	PROVINCIAL LANDS			FOREST RESERVES		
	Timber Berths	Special Permits	Other Permits	Timber Berths	Other Permits	TOTAL
Active Operations .....	591	339	3,757	40	108	4,835
Boxwood (cords) .....	.....	.....	50	.....	.....	50
Fuelwood (cords) .....	1,118 ½	.....	6,688	1,202	1,209	10,217 ½
Lath (pieces) .....	2,729,900	.....	.....	.....	.....	2,729,900
Lumber (F.B.M.) .....	350,485,581	20,687,311	19,966,968	28,040,667	183,817	419,364,344
Poles and Piling (lineal feet) .....	119,454	184,007	.....	4,999	15,455	323,915
Pulpwood (cords) .....	1,054.26	111.40	38,374	.....	.....	39,539.66
Railway ties (pieces) .....	1,094,971	31,787	.....	.....	.....	1,126,708
Slabs (cords) .....	379 ½	1 ½	.....	1,152	.....	1,533
Shingle Bolts (cords) .....	.....	.....	3	.....	.....	3
Shingles (pieces) .....	.....	.....	35,000	.....	.....	35,000
Round Timbers (lineal feet) .....	1,260,497	102,738	4,278,713	1,838,480	1,368,790	8,849,218
Timber Seizures (number) .....	.....	.....	167	.....	.....	167

## GRAZING STATEMENT—ALBERTA FOREST SERVICE

Forest	No. of Permits	No. of Horses	No. of Cattle	No. of Sheep
Cypress Hills .....	60	131	3,251	.....
Crowsnest .....	198	318	13,207	1,750
Bow River .....	77	337	7,651	.....
Clearwater .....	56	454	263	.....
Totals .....	391	1,240	24,372	1,750
	Total for the Period 1931 to 1950-51		Average per Year	
Number of Permits .....	10,154		483	
Number of Horses .....	57,976		2,760	
Number of Cattle .....	450,666		21,460	
Number of Sheep .....	88,750		4,221	

## IMPROVEMENT STATEMENT

Fiscal Year 1950-51

## NEW CONSTRUCTION PROJECTS

Forest	Houses	Garages, Sheds, Etc.	Fences	Lookout Towers	Water Supply Systems	Barns and Stables	Telephone (miles)	Corrals	Bridges	Grounds	Trails (miles)	Cabins	Tourist Stoves	Fireguard Roads (miles)	Radio Portable	Miscel- laneous
Crownsnest	8	1	...	...	...	...	...	...	...	2	60	...	...	...	1	2
Bow River	3	9	1	...	...	...	...	...	...	...	35	1	...	...	...	7
Clearwater	4	1	...	...	...	...	...	...	...	...	78	...	...	...	...	9
N.A.F.D.	3	12	...	3	1	1	...	1	2	...	197	8	...	...	...	7
TOTALS	18	23	4	3	1	1	...	1	2	2	370	9	...	...	1	21

## MAINTENANCE PROJECTS

Forest	Houses	Cabins	Barns and Stables	Telephone (miles)	Trails (miles)	Roads (miles)	Fences	Corrals	Water Supply Systems	Garages, Sheds, Etc.	Lookout Towers and Cabins	Grounds	Hay Meadows & Pastures	Ferriers	Bridges	Miscel- laneous
Crownsnest	7	3	4	90	82	40	14	3	...	10	...	8	...	...	1	11
Bow River	11	6	6	100	42	30	20	...	...	11	...	12	...	...	...	31
Clearwater	3	12	4	120	30	23	16	7	...	5	...	4	3	...	...	8
N.A.F.D.	10	30	5	106	69	70	8	3	2	18	6	5	8	...	...	8
TOTALS	31	51	19	416	173	163	53	13	2	44	6	29	6	...	1	58

## DEPARTMENT OF LANDS AND FORESTS

## IMPROVEMENTS—STATEMENT OF MAN-DAYS WORKED

## NEW CONSTRUCTION PROJECTS

Forest	Houses	Garages, Sheds, Etc.	Fences	Lookout Towers	Water Supply Systems	Barns and Stables	Telephones	Corrals	Bridges	Grounds	Trails	Cabins	Tourist Stoves	Fireguard Roads	Radio Portables	Miscel- laneous
Crownest .....	576	4½	...	...	...	...	...	...	...	18½	192	...	...	...	38	6
Bow River .....	68½	379½	2	...	...	...	...	...	...	...	231½	78½	...	...	...	195½
Clearwater .....	667½	73½	...	...	...	...	...	...	...	...	268	...	...	...	...	44
N.A.F.D. ....	141	56	127	74½	19½	18½	...	2	5	...	190½	248	...	...	...	116½
TOTALS .....	1453	513½	129	74½	19½	18½	...	2	5	18½	882	326½	...	...	38	362

## MAINTENANCE PROJECTS

Forest	Houses	Cabins	Barns and Stables	Telephones	Trails	Roads	Fences	Corrals	Water Supply Systems	Lookout Towers and Cabins	Garages, Sheds, Etc.	Grounds	Hay Meadows & Pastures	Ferries	Bridges	Miscel- laneous
Crownest .....	139½	33½	11½	138½	32	51½	204½	13½	...	...	25½	36½	...	...	11	92½
Bow River .....	71½	19½	8	274	284½	166½	151½	...	...	...	24½	106	...	...	...	352½
Clearwater .....	13	62½	32	146	203½	43	267½	46½	...	...	28	52½	...	...	...	94½
N.A.F.D. ....	132½	243½	161	560	701	507½	203	16½	12½	119	38½	62	39½	...	...	133½
TOTALS .....	356½	359	68	1118½	1221	768½	826½	76½	12½	119	116½	257	39½	...	11	725

MODE OF TRANSPORTATION AND MILEAGE TRAVELLED BY EMPLOYEES  
OF THE ALBERTA FOREST SERVICE  
Fiscal Year 1950-51

Divisions	Foot	Saddle	Driving	Speeder	Auto	Canoe	Rowboat	Motorboat	Plane	Railway	Bus	Others	
N.A.F.D.	44,296	27,443	47,443	10,012	603,969	1,609	130	13,171	6,899	18,335	3,386	3,551	780,299
Crowsnest	1,135	2,732	755	.....	49,435	.....	.....	.....	.....	178	434	216	54,160
Bow River	2,545	18,037	755	.....	101,436	.....	62	.....	.....	.....	430	456	124,033
Clearwater	3,602	13,233	609	.....	73,376	.....	.....	.....	.....	222	.....	1,692	93,234
Cypress	467	1,332	332	43	9,987	.....	.....	.....	.....	.....	.....	11	12,172
Radio	530	1,250	.....	.....	58,178	.....	.....	.....	6,400	10,900	.....	.....	77,258
TOTALS	52,575	64,092	49,149	10,055	897,081	1,609	242	13,171	13,299	29,707	4,250	5,926	1,141,156

FORESTRY

STAFF TURNOVER  
1950-1951

Division	No. of Employees Leaving Dept.	Deaths	Retirements	Transfers	New Positions Created
Head Office .....	Six	W. Ronahan (July, 1950)		L. R. West transferred from Position of Timber Adminis- trator to Forest Supt., Bow River, July 1, 1950.	Peace River Land Agency Position transferred to For- ests Division as at April 1st, 1950.
N.A.F.D. and Brazeau- Athabasca .....	Seventeen		C. Carter, Tbr. Insp. Athabasca, June 26, 1950 R. F. Coggins, Forestry Officer, August 31, 1951 V. W. Mitchell, Tbr. Inspector, March 21, 1951	F. V. Keats transferred from Position of Auditor to Forest Supt., Clearwater Forest, July 1, 1950.	Two new Forest Officer III Positions—Calling Lake Div- ision (W. E. Ferguson) and Breton Division (J. B. Roy).
Forest Inventory .....	One				
Radio Communications .....	Five				
Fisheries Division .....	Two				
Game Division .....	Five (office) Two (field)	A. J. Bresee (January, 1951)	L. W. Shaw, Fishery Officer III, August 25, 1950		Position of Compiler estab- lished. (G. M. Smart) Class 17—Gr. 4 (now Grade 15).
Crownsnest Forest Reserve ..	Two				
Bow River Forest Reserve ..	Six		F. G. Edgar, Forest Superintendent, July 15, 1950		
Clearwater Forest Reserve	Three			J. R. H. Hall, transferred from position of Forest Supt. to Asst. Director of Forestry.	



## TREES DISTRIBUTED SPRING, 1950

White Spruce .....	7,390
Lodgepole Pine .....	5,529
Red Pine .....	4,823
Bur Oak .....	3,864
Green Ash .....	7,122
Siberian Larch .....	125
American Elm .....	25
CUTTINGS	
Laurel Leaf Willow .....	20,400
Golden Willow .....	11,750
North-west Poplar .....	31,675

## EASTERN ROCKIES FOREST RESERVES

*Report of Senior Superintendent, J. P. Alexander*

## FOREST PROTECTION

*(a) Fire Season.*

With a heavier than usual snowfall during the winter of 1949-50 followed by a retarded spring and early summer rains, a favorable fire season resulted, and only for a short period in late August and early September was any exceptional fire hazard experienced. The first snowfall in the latter part of September effectively ended the fire season over the greater portions of the reserves, although some foothill districts presented a limited hazard to a somewhat later date.

*(b) Fire Prevention.*

Fire prevention activities were continued as in recent years. The distribution of fire prevention posters and personal contact with reserve travellers by the field staff was carried on throughout the year.

*(c) Fire Detection.*

While consideration has been given by the Eastern Rockies Forest Conservation Board to the addition of more lookout stations to our present system and selection of suitable sites is now being investigated, the existing system of ten lookouts and field patrols continued to be the chief detection medium. Also a valuable detective source are the many fire-conscious sojourners throughout the reserves who may be depended on to quickly report any outbreaks discovered. It is anticipated that some additional lookouts will be constructed as soon as definite sites have been determined.

*(d) Fire Suppression.*

Only six fires were reported within the three East Slope Reserves, one each on the Crowsnest and Bow River Forests and four on the Clearwater Forest. The burned area was approximately 20 acres and the costs of extinguishing were \$11.55 in wages and \$76.03 ranger labor a total of \$87.58. Losses reported were \$400.00 for a small sawmill and \$330.00 for timber destroyed. Fire causes were Lumbering 3, Public Works 1, Campers 1, and Smokers 1.

Seventeen fires were handled by Forestry personnel outside of the Reserves, eleven in Districts 1 and 2 of the N.A.F.D. and six in areas adjacent to the Crowsnest Forest. None of these fires attained large size.

(e) *Personnel.*

There were only minor changes of actual personnel in the field staff during the year, chiefly seasonal lookout men and a few assistant rangers. District Rangers H. R. Baker and M. Meister exchanged districts, Baker taking over the Sentinel District of the Bow River Forest, while Meister replaced him on the Willow Creek District of the Crowsnest Forest.

(f) *Fire Fighting Equipment.*

No new equipment for fire suppression was obtained during the year other than normal replacements. Fire fighting equipment on hand is well distributed and considered sufficient for present requirements and the East Slope is also now in possession of some construction machinery, chiefly trucks and bulldozers, which can be of value under favorable circumstances.

## ADMINISTRATION

(a) *Timber.*

Timber continued to be in demand and there were 39 active sales during the year. Five of these were completed and closed out during the year.

Six special timber permits and 104 general permits were issued on the Bow River and Clearwater Forests and permits to the amount of \$2,613.78 were issued on the Crowsnest Forest.

(b) *Grazing.*

323 grazing permits were issued for a total of 20,928 cattle, 1,038 horses and 1,750 sheep.

(c) *Hay*

Only one permit for hay was issued on the Bow River Forest for 50 tons.

(d) *Uses.*

Use permits of which we have record during the year amounted to 163, but this figure does not include carry-over or renewal permits for the Clearwater Forest.

With the increased interest in timber production and petroleum development it is expected that such use activity will increase.

## IMPROVEMENTS

Assisted to a great extent by the operation of the Eastern Rockies Forest Conservation Board, a large program of improvement work was undertaken, particularly as regards buildings and road construction.

Work was undertaken on 59 new construction projects as listed hereunder, and a total of 2,826 days devoted to these projects by the field staff:

Crowsnest Reserve Headquarters .....	1
Houses .....	6
Cottages .....	3
Bunkhouses .....	2
Storehouses .....	3
Garages .....	2
Power Plants .....	5
Roads .....	9
Trails .....	13
Miscellaneous .....	15
	<hr/>
	59

Maintenance work on all existing improvements was carried out for a total of 3,250 man-days.

### FISH AND GAME

Normal fish and game patrols were carried out during the year with more intensified patrols being undertaken during the early days and holidays of the fishing season and throughout the big game hunting season.

### RECREATION

General use of the reserves during the open months continues to be heavy and with a marked increase on the Clearwater Forest as road improvement is accomplished. Greatly improved fishing in that area is also becoming more widely known by fishermen.

## **Fish and Game Administration**

### **REPORT OF THE FISH AND GAME COMMISSIONER**

E. S. HUESTIS

#### **GENERAL**

The Fish and Game Branches of the department reported that the angling and hunting public were taking a much greater interest in fish and game matters. The sale of licenses of various kinds reached an all-time high in the history of the Fish and Game Administration of the province. During the fiscal year 18,658 anglers took out licenses, which was an increase of 1,350 over the previous year and double the number taken out in 1946-47. In the commercial fishing field 3,617 fishermen's licenses were taken out, which is the highest in the past four years but does not quite reach the maximum peak of over 4,000 taken out in 1946-47. Commercial licenses, however, reached an all-time high of 166 and fish dealers' licenses had an increase of 31 to an all-time high of 124.

In the commercial production of fish, there has been a steady decline in the over-all production since 1946-47, but 1950-51 showed a small increase. In whitefish, which is the principal exportable species, there has been a steady increase for the past four years and the production has almost reached the high season of 1946-47. The market value of the fish for the fiscal year was slightly lower than the previous year, even though there was an increase in production. This was due to market trends.

The sale of resident bird game licenses reached an all-time high in the fiscal year, 36,308 being sold as against 34,829 in the previous year. Resident big game licenses, however, declined from 15,279 the previous year to 12,732 in 1950-51. It is also noted that non-resident big game licenses were reduced from 139 to 98. Most other licenses, however, showed an increase over previous years. Three times as many bird and big game licenses were sold during the past year as compared with a similar period 10 years ago.

The number of pelts of wild fur-bearing animals taken by trappers was less than last year, but the amount of money realized by them was increased by over \$600,000.00. This was due, of course, to the increased value of certain furs. Because of the smaller number of pelts taken, the revenue to the department was down slightly from the previous year.

#### **FISH AND GAME CONDITIONS**

The fiscal year showed a decided increase in the production of fish taken by anglers throughout the province. Reports from all parts of the province, particularly along the eastern slope of the Rocky Mountains, showed some of the choicest angling conditions for many years. Anglers had little difficulty in getting their creel limits on most of the streams.

This improvement in angling throughout the province is due partly to the fish stocking program carried on by the department, partly to the work of beaver in creating deep pools on various streams where fish are able to winter with security, and partly to fairly good weather conditions for angling.

Big game appeared to hold up well under increased hunting pressure, with the exception of moose. It was necessary during the fiscal year to close the moose season because reports showed that these animals were being depleted in many areas, and it was felt advisable that they should be given one or two years in which to recuperate. At the same time that moose was closed it was possible to extend the bag limit on other big game animals. Hunters were allowed to take one sheep and one goat, where in the previous year they were allowed only one of either animal. It was also possible to allow the hunter to take both a grizzly and one of either black, brown or cinnamon bear; previously only one of either could be taken.

For the past several years there has been a steady increase in the supply of game birds, particularly upland birds. Sharp-tail grouse, ruffed grouse and Hungarian partridge have shown a decided increase in those parts of the province where they are usually found. On the other hand, migratory waterfowl showed a slight decrease, the survey on ducks showing a 7% decrease from the previous year.

#### PRINCIPAL CHANGES IN GAME REGULATIONS

Two changes in the Game Regulations have been noted above, that is, the increase in the big game bag limit on sheep, goat and bear.

During the year a new system of affixing seals to big game animals was put into effect so that these seals could be properly attached to either a trophy or the animal itself, depending on the type of hunter. Three different methods were allowed: 1, through the hock; 2, around the antler; 3, through the eye if a trophy only was taken. The regulations required, however, that the seal must be locked or the hunter stood a chance of losing his big game animal.

During 1949-50 an open season was declared on deer east of No. 2 highway, Carway to Edmonton, but after one season it was decided to again close the hunting of deer in this area. It is quite possible that the season will have to be opened in the area periodically in order to keep the deer herds properly scattered throughout this part of the province.

The department decided to remove the \$10.00 royalty on black and brown bear for non-residents and also the \$2.00 royalty on grizzly bear to resident hunters. It was found that the cost of collecting the royalty was too great for the small number of animals of this type being taken.

Under the Migratory Bird Regulations the shooting of geese on certain rivers was further restricted to include the Smoky and Little Smoky Rivers in the Peace River Block, as well as the

North Saskatchewan, Red Deer, Bow River, South Saskatchewan and Old Man Rivers.

The shooting of all migratory birds was prohibited within one-half mile of Beaverhill and Buffalo Lakes, similar to the restriction imposed in 1949-50 on Sullivan Lake. It was desirable that certain large lakes be selected on the goose flyway to give the geese an opportunity to rest while passing through Alberta. At the same time, it allowed the hunter to take these birds as they went out from these larger lakes to feed on adjacent fields.

In co-operation with the Department of Public Health's effort to stop the inroads of rats into Alberta from the Province of Saskatchewan, weasels were protected for the first time in a buffer zone extending from Townships 1 to 50, Ranges 1 to 5, West of the 4th Meridian.

The department put out new angling, game bird, and big game licenses during the year. These licenses had a space thereon for checking by officers in the field, and also a space for the angler or hunter to mark in the number of fish, birds or big game taken by him so that he could report to the Fisheries or Game Branch by turning in his license at the end of the season. The postage on the return of game licenses was paid by the department, but unfortunately not on angling licenses. A stamp will be affixed to the angling license next year. The return on licenses was interesting, only 10% of 20,000 anglers turned in their licenses, whereas 35% of the bird game license holders and 50% of the big game license holders returned their licenses to the department. Thus, some very interesting statistics were collected on the amount of fish and game taken, which showed the different species and locations of the largest take.

Following a careful survey of the angling conditions in the McLeod River drainage inside the Brazeau Forest, it was decided to eliminate both the size limit and creel limit on trout taken in these streams. This decision was reached from the results of the survey, which showed that regardless of age, most fish in these streams were not reaching the legal size limit. It was, therefore, decided to fish these streams as heavily as possible, taking any size fish, in an endeavor to cut down the population where the existing food supply was not found to be sufficient to grow a good-sized trout.

#### *Predators.*

At the end of the fiscal year under review it was decided by the government that the control of coyotes in settled areas of the province should become the responsibility of the Department of Agriculture. The Department of Lands and Forests, through the Game Branch, retained the responsibility of the control of coyotes, wolves and cougar in the forested areas of the province. The bounty was continued on wolves and cougar but no bounty was offered by either department on coyotes. This department, however, increased its efforts towards keeping down the coyote and wolf population in the forested areas by the distribution of coyote getters using sodium cyanide shells. Ninety of our men

were supplied with 550 coyote getters, and reports from various men showed a good take of animals during the winter of 1950-51.

In an endeavor to have the best possible methods of combatting the coyote and wolf situation in the province, the government sent three men to the State of Montana to study their predator control campaign, two of these men being from the Department of Agriculture and one from our own department.

#### *Beaver.*

The beaver protection campaign, which was started some nine years ago, has shown such excellent results that beaver have now spread over most streams in Southern Alberta, including many streams in prairie lands and drought areas. Beaver located close to settlement cause damage from time to time in the way of flooding hay meadows, pasture lands, bridges, culverts and roads. As a result of this, the number of beaver required to be moved each year from areas where they are creating damage to new locations has increased to the extent that the facilities of the department have not been able to keep up with the demand. As a result, it was decided to place in the hands of the farmer who had beaver on his land the responsibility of using the beaver as a source of revenue, taking a crop therefrom each year. The farmer could apply for and obtain a permit which would allow him to take the annual increase, or where damage was created, slightly more than his annual increase. It was felt that the farmer, who would then be able to obtain some return from the sale of pelts to offset the cause of damage, would take the responsibility of protecting beaver on his land so that he would have a perpetual revenue from the beaver pelts taken each year. It is hoped that this new policy will be effective in a continued conservation of this most important fur-bearing animal.

#### *Surveys.*

The usual surveys of migratory bird, upland bird and big game were conducted throughout the year to determine what bag limits and seasons should be allowed to the sportsmen. In addition to these surveys, a very important survey was carried out to determine the effects of prospecting and strip mining in forested areas on stream flow, particularly the effect of pollution on the fish population. Due consideration was given also to the question of erosion caused by prospecting and strip mining operations. Erosion usually silts up the bottom of streams, covering the natural food and cutting down the population of fish in the stream.

#### *Personnel.*

The department is grateful for the large amount of law enforcement carried out by the R.C.M.P. This Force has assisted very materially in the work of all enforcement, augmenting the work of our fish and game officers. The Fish and Game Branches are also indebted to the officers of the Forest Service in the handling of fish and game work in forested areas, and also the Department of Zoology. The guidance of the senior professors

of this department in handling survey and biological work for the department has been very much appreciated.

The Game Branch regrets the passing of Game Officer Bresee during the year. Mr. Bresee carried on his duties as a Game Officer in spite of the handicap of a serious illness and continued to work as long as he could carry on.

#### GAME LICENSES

APRIL 1st, 1950, to MARCH 31st, 1951

	Number of Licenses	Fee	Total Amount
Residents' Bird Game Licenses .....	36,308	\$ 2.50	\$90,770.00
Non-Residents' (Canadian) Bird Game .....	490	5.00	2,450.00
Non-Residents' (Non Canadian) Bird Game .....	449	25.00	11,225.00
Residents' Big Game Licenses .....	12,732	5.00	63,660.00
Non-Residents' Big Game Licenses .....	98	100.00	9,800.00
Permit to Collect .....	34	free	
Taxidermists' Licenses .....	1	10.00	10.00
Residents' Special .....	60	5.00	300.00
Non-Residents' Special .....	63	25.00	1,575.00
Guide's Licenses (Class "A" and "B") .....	129	2.50	322.50
Guide's Licenses (Class "C") .....	12	1.00	12.00
Game Farms .....	11	5.00	55.00
Outfitters' Licenses .....	46	25.00	1,150.00
Non-Residents' Permit to Export .....	55	free	
Non-Residents' Permit to Export .....	12	various	591.00
Fur Farmers .....	23	various	154.00
Resident Trapper's Licenses .....	3,127	3.00	9,381.00
Permit to Trap Beaver .....	264	10.00	2,640.00

#### BOUNTY ON TIMBER WOLVES AND COUGARS—SEASON 1950-51

Timber Wolves and Cougars killed from April 1st, 1950 to March 31st, 1951

467 Timber Wolves at \$15.00 each .....	\$7,005.00
297 Timber Wolves at \$12.00 each .....	3,564.00
49 Cougars at \$15.00 each .....	735.00

#### LICENSED ALBERTA FUR FARMS

Beaver .....	13
Muskrats and Beaver .....	2
Muskrats .....	8

#### ALBERTA FUR PRODUCTION—SEASON 1950-51 (WILD FUR)

	Total Number of Pelts	Average Value of Pelts	Total Value of Pelts
Badger .....	134	\$ 1.78	\$ 238.52
Beaver .....	12,382	18.17	224,980.94
Ermine .....	78,641	2.29	180,087.89
Silver Fox .....	114	9.53	1,086.42
Red Fox .....	2,033	2.09	4,248.97
Cross Fox .....	890	3.92	3,488.80
White Fox .....	37	14.25	527.25
Blue Fox .....	9	6.58	59.22
Lynx .....	2,020	10.03	20,260.60
Marten .....	847	28.77	24,368.19
Mink .....	4,059	33.42	135,651.78
Muskrat .....	433,998	2.18	946,115.64
Otter .....	101	28.30	2,858.30
Jack Rabbit .....	8,001	.47	3,760.47
Bush Rabbit .....	18,872		
Tame Rabbit .....	1,385		
Skunk .....	124	.60	74.40
Squirrel .....	1,165,209	.79	920,515.11
Coyote .....	13,666	4.44	60,677.04
Timber Wolf .....	119	7.94	944.86
Wolverine .....	32	32.31	1,033.92
	<u>1,742,673</u>		<u>\$2,530,978.32</u>

#### CONVICTIONS UNDER THE GAME ACT, 1950-51

Number of Convictions .....	232
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#### CONFISCATED FURS

Amount realized from the sale of confiscated fur during the period April 1st, 1950 to March 31st, 1951 .....	\$861.65
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## TRAP-LINE REGISTRATIONS

Number of Registered Trap-Lines and Revenue, April 1st, 1950 to  
March 31st, 1951—

2703 at \$10.00 .....	\$27,030.00
94 at \$20.00 .....	1,880.00

## FUR DEALERS' LICENSES, ETC.

Resident Fur Dealer's Licenses to carry on business in a city, and elsewhere than in a city .....	346	\$3,460.00
Non-Resident Fur Dealer's Licenses to carry on business in the Province .....	4	400.00
Resident Travelling Fur Purchasing Agent's Licenses .....	31	775.00
Tanner's Licenses .....	1	10.00
Furrier's Licenses .....	20	200.00

## FUR TAX REVENUE

Amount collected .....	\$99,054.56
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## MUSKRAT AND BEAVER PERMITS ISSUED

Muskrat Permits issued .....	358
Musk rats reported taken .....	29,152
Beaver Permits issued .....	948
Beaver reported taken .....	4,925

## FISHERIES BRANCH, 1950-51

## REVENUE:

	1949-50	1950-51
Fishing Licenses .....	\$14,645.00	\$19,949.00
Fish Dealer's Licenses .....	2,495.00	2,805.00
Boat Licenses .....	180.00	215.00
Angling Permits .....	37,048.24	39,824.40
Royalties .....	12,796.82	12,782.98
Casual .....	590.04	2,512.70
	<u>\$67,755.10</u>	<u>\$78,089.08</u>
Increase \$10,333.98		
Licenses and Permits .....	21,939	24,888
Prosecutions .....	133	155
Confiscations .....	70	70
Commercial Fish Catch (Lbs.) .....	6,284,060	6,611,100

## PROSECUTIONS:

	1949-50	1950-51
Fishing without license .....	16	32
Excess of per diem limit .....	.....	9
Fishing out of season .....	21	45
Retaining under size fish .....	1	4
Using illegal gear .....	36	11
Pollution .....	2	3
Using fire-arms illegally .....	7	6
Illegal possession of fish .....	11	12
Illegal purchase or sale of fish .....	4	4
Illegal transportation of fish .....	7	.....
Using gill-net in stream .....	1	1
Operating illegal nets .....	11	14
Operating nets without markings .....	1	1
Operating nets other than licensee .....	2	1
Operating nets in closed area .....	5	7
Angling in closed waters .....	6	2
Obstructing a fishery officer in line of duty .....	1	1
Not completing dealer's statements .....	1	.....
Wholesale dealing without license .....	.....	2
	<u>133</u>	<u>155</u>

## LICENSES AND PERMITS

	1946-47	1947-48	1948-49	1949-50	1950-51
Angling Permits (Season) .....	9,038	10,099	11,832	17,208	18,658
Angling Permits (Limited) .....	629	848	1,151	1,788	2,181
Domestic Licenses .....	87	89	100	90	102
Fisherman's Licenses .....	4,643	3,603	3,088	2,581	3,617
Commercial Licenses .....	130	104	127	147	166
Fish Dealer's Licenses .....	82	105	97	93	124
Motor-Boat Licenses .....	17	27	23	32	40
	<u>14,626</u>	<u>14,875</u>	<u>16,418</u>	<u>21,939</u>	<u>24,888</u>

## DEPARTMENT OF LANDS AND FORESTS

## COMMERCIAL PRODUCTION OF FISH

Species	1946-47 Lbs.	1947-48 Lbs.	1948-49 Lbs.	1949-50 Lbs.	1950-51 Lbs.
Whitefish .....	2,649,881	1,776,629	1,759,816	1,869,849	2,108,434
Trout .....	111,878	21,372	3,463	15,177	9,154
Pike .....	585,146	702,239	559,797	592,782	376,458
Pickrel .....	612,466	388,243	259,044	135,656	127,622
Perch .....	244,957	200,685	46,555	54,265	19,098
Tullibee .....	6,688,432	6,514,847	4,339,130	3,159,532	3,591,704
Mixed Fish .....	179,838	292,532	255,096	456,799	378,630
Totals .....	11,072,598	9,896,547	7,222,901	6,284,060	6,611,190

	Weight Lbs.	Value to Fishermen \$	Value as Marketed \$
Totals for year 1946-47 .....	11,072,598	600,292.43	1,340,539.95
Totals for year 1947-48 .....	9,896,547	449,155.56	856,496.06
Totals for year 1948-49 .....	7,222,901	374,991.83	636,396.01
Totals for year 1949-50 .....	6,284,060	377,114.44	652,538.06
Totals for year 1950-51 .....	6,611,100	381,018.63	652,000.34

## ALBERTA FISH EXPORTS

## EXPORTS TO CANADIAN MARKETS:

	1949-50	1950-51
Whitefish .....	138,954 Lbs.	182,961 Lbs.
Pickrel .....	9,998	9,844
Pike .....	4,259	11,867
Perch .....	2,054	632
Trout .....	3,176	825
Tullibee .....	6,691	10,928
Suckers .....	150	.....
	165,282 Lbs.	217,057 Lbs.

## EXPORTS TO CHICAGO MARKETS:

Whitefish .....	892,386 Lbs.	957,227 Lbs.
Pickrel .....	72,211	58,710
Pike .....	56,440	46,469
Perch .....	28,581	2,820
Trout .....	7,123	5,271
Tullibee .....	13,423	14,391
	1,070,164 Lbs.	1,084,888 Lbs.

## EXPORTS TO NEW YORK MARKETS:

Whitefish .....	106,105 Lbs.	97,547 Lbs.
Pickrel .....	1,260	318
Pike .....	110	1,629
Trout .....	.....	53
Tullibee .....	960	.....
	108,435 Lbs.	99,547 Lbs.

## EXPORTS TO MISCELLANEOUS U.S. MARKETS:

Whitefish .....	960 Lbs.	440 Lbs.
Pickrel .....	.....	40
	960 Lbs.	480 Lbs.

## RECAPITULATIONS:

Whitefish .....	1,138,405 Lbs.	1,238,175 Lbs.
Pickrel .....	83,469	68,912
Pike .....	60,809	59,965
Perch .....	30,635	3,452
Trout .....	10,299	6,149
Tullibee .....	21,074	25,319
Suckers .....	150	.....
	1,344,841 Lbs.	1,401,972 Lbs.

Increase—57,151 Lbs.

## COMMERCIAL CATCH OF FISH IN POUNDS—1950-51

Lake	No. of Licenses	Ling	Tullibee	Suckers	Perch	Pickarel	Pike	Trout	Whitefish	Total
Amisk .....	7	580	27,303	.....	161	255	1,343	.....	.....	29,642
Battle .....	100	500	.....	1,200	.....	.....	1,664	.....	22,536	25,236
Beaver .....	13	.....	170	.....	.....	1,237	474	.....	16,682	18,563
Birch .....	2	.....	.....	.....	.....	.....	75	.....	1,860	1,875
Buck (Tp. 46-6-w5) .....	439	2,000	.....	100	50	500	2,000	.....	65,920	70,870
Buck (Tp. 65-17-w4) .....	19	2,036	1,303	.....	2,124	56	11,863	.....	2,604	19,986
Burnt (Tp. 95-25-w4) .....	4	.....	.....	.....	.....	.....	.....	.....	2,270	2,270
Calling .....	21	15,450	3,775	47,960	.....	5,330	10,460	.....	4,141	87,096
Christina .....	7	1,955	74,136	.....	.....	387	10,580	.....	9,285	96,333
Chump .....	4	.....	450	.....	.....	.....	390	.....	.....	830
Cross (Tp. 65-25-w4) .....	1	.....	.....	.....	.....	.....	221	.....	.....	110
Elmor .....	4	.....	.....	.....	16	169	221	.....	4,785	5,191
Fawcett .....	2	640	1,459	1,206	.....	1,620	739	.....	1,621	7,179
Fork (Tp. 63-11-w4) .....	4	.....	.....	.....	460	.....	2,845	.....	.....	3,305
Frog .....	2	.....	3,815	9,100	.....	.....	11,370	.....	37,900	58,560
Georges (Cheecham) .....	1	.....	.....	.....	.....	2,910	8,505	.....	.....	8,095
Goodfish .....	24	.....	.....	271	1,245	67	10,370	.....	.....	10,088
Heart .....	11	3,237	14,905	188	188	1,725	10,380	.....	3,420	33,945
Helena .....	4	38	.....	.....	103	2,425	1,350	.....	.....	3,546
Hilda .....	5	.....	11,500	1,400	.....	2,100	1,395	.....	.....	16,450
Hope .....	3	173	1,410	.....	118	212	1,395	.....	332	2,640
Ipiatik .....	7	.....	.....	.....	.....	.....	1,324	.....	14,668	16,502
Ironwood (Rocky Island) .....	9	.....	.....	.....	.....	95	97	.....	986	1,178
Island (Tp. 67-24-w4) .....	2	.....	.....	200	1,800	.....	1,400	.....	100	3,500
Kinnaird .....	6	.....	1,417	.....	1,045	498	2,449	.....	.....	5,609
Lac La Biche .....	101	130,466	278,140	.....	1,060	7,210	65,914	.....	9,634	493,474
Lac La Nonne .....	63	8,000	4,500	.....	.....	150	1,330	.....	16,313	30,793
Lac Ste. Anne .....	76	.....	.....	.....	.....	3,336	6,310	.....	43,004	47,180
Lawrence .....	6	10	.....	31,200	200	.....	.....	.....	.....	37,720
Lesser Slave .....	C166	52,518	3,050,330	400	200	46,404	55,825	.....	683,746	3,889,223
Little Egg (Biolo) .....	F88	.....	.....	.....	3,285	.....	3,241	.....	.....	6,526
Little Whitefish No. 1 .....	6	.....	8,370	.....	140	.....	2,717	.....	8,000	19,227
Long (Tp. 89-5-w5) .....	5	.....	.....	.....	.....	1,137	1,034	.....	6,933	9,104
Long (Tp. 63-19-w4) .....	9	.....	185	.....	41	.....	606	.....	.....	832
Marie .....	7	1,100	.....	5,925	.....	1,000	4,945	.....	22,825	35,896
McGregor .....	130	.....	30,293	.....	.....	2,601	1,320	.....	121,369	121,860
Moose .....	39	.....	.....	.....	.....	.....	21,437	.....	55,651	77,088
Muriel .....	84	1,200	.....	.....	.....	.....	2,000	.....	73,000	75,200
Newell .....	172	175	.....	350	.....	.....	33,950	.....	209,350	242,925
Orloff (Tp. 72-23-w4) .....	15	1,400	1,800	.....	.....	.....	1,175	.....	4,900	9,275
Peerless .....	13	.....	.....	.....	.....	.....	.....	9,154	27,440	36,594
Pigeon .....	379	.....	.....	.....	.....	3,000	2,000	.....	66,000	71,000

Pinehurst .....	23	29,937	.....	.....	367	1,745	22,409	.....	30,433	84,891
Rock Island .....	6	50	14,700	.....	.....	300	1,420	.....	30,780	49,750
Round .....	2	.....	.....	.....	.....	473	1,638	.....	3,931	4,447
Sandy (Tp. 69-14-w4) .....	2	.....	.....	.....	1,940	.....	1,680	.....	.....	3,620
Sandy (Tp. 79-22-w4) .....	2	.....	1,280	.....	.....	60	370	.....	480	2,190
Shining Bank .....	2	.....	.....	.....	.....	405	390	.....	3,000	3,795
Square .....	2	.....	55,963	.....	.....	.....	2,340	.....	.....	58,303
Sterner .....	12	.....	.....	.....	.....	.....	550	.....	19,929	20,479
Sturgeon .....	14	.....	.....	291	.....	899	274	.....	27,293	28,757
Touchwood .....	14	5,210	.....	.....	855	2,210	11,615	.....	17,560	37,450
Trout .....	21	.....	.....	.....	.....	16,737	3,111	.....	57,989	77,837
Tucker .....	2	.....	.....	.....	3,700	.....	9,300	.....	.....	13,000
Wabamun .....	1,504	6,494	.....	.....	.....	.....	6,188	.....	300,397	313,079
Williams .....	35	.....	.....	.....	.....	10,779	26,061	.....	24,620	24,620
Winfred .....	54	4,864	.....	.....	.....	12,000	.....	.....	64,710	106,414
Wolf (Tp. 66-7-w4) .....	25	500	4,500	8,000	.....	.....	22,000	.....	27,000	74,000
		268,533	3,591,704	110,097	19,098	130,532	373,548	9,154	2,108,434	6,611,100

NUMBER AND VALUE OF VESSELS, BOATS, FISHING GEAR AND EQUIPMENT

	1946-47		1947-48		1948-49		1949-50		1950-51	
	No.	Value	No.	Value	No.	Value	No.	Value	No.	Value
VESSELS, BOATS										
Row .....	359	\$ 9,160.00	143	\$ 3,820.00	110	\$ 3,490.00	188	\$ 6,660.00	94	\$ 4,430.00
Gasoline .....	292	106,800.00	257	82,020.00	197	62,975.00	165	50,900.00	188	72,005.00
Diesel .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barges .....	.....	.....	2	400.00	.....	.....	.....	.....	.....	.....
	651	\$115,960.00	402	\$ 86,240.00	307	\$ 66,465.00	353	\$ 57,560.00	282	\$ 76,435.00
PIERS AND WARVES										
Summer .....	37	\$ 8,370.00	51	\$ 21,335.00	19	\$ 5,220.00	29	\$ 2,375.00	33	\$ 3,675.00
Winter .....	93	11,230.00	10	370.00	.....	.....	13	650.00	.....	.....
FISH PLANTS AND ICE HOUSES										
Summer .....	150	\$ 44,920.00	150	\$ 81,185.00	30	\$ 31,395.00	46	\$ 27,320.00	67	\$ 50,285.00
Winter .....	75	39,670.00	46	9,657.00	16	14,100.00	53	51,885.00	52	47,000.00
GILL-NETS										
May 16-Sept. 30 .....	6,387	\$102,404.00	5,222	\$ 81,329.00	3,849	\$ 89,864.00	2,756	\$ 61,721.00	2,681	\$ 68,332.00
Oct. 1-Dec. 31 .....	6,304	66,856.00	1,613	20,894.00	1,930	23,080.00	1,880	35,412.00	3,809	57,464.00
Jan. 1-Mar. 31 .....	10,140	165,304.00	6,890	74,880.00	5,953	104,143.00	4,560	104,238.00	5,491	119,141.00

## FISH AND GAME ADMINISTRATION

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## QUANTITIES AND VALUE OF FISH CAUGHT AND MARKETING

Species	Period	Weight (lbs.)	Value to Fishermen	Value as Marketed
Whitefish	May 16/50 to Sept. 30/50	616,599	\$ 56,896.94	\$121,480.29
	Oct. 1/50 to Dec. 31/50	616,532	60,678.37	104,242.85
	Jan. 1/51 to Mar. 31/51	875,303	120,391.08	193,308.06
		2,108,434		\$237,966.39
Trout (Lake)	May 16/50 to Sept. 30/50	7,659	\$ 855.00	\$ 1,761.57
	Oct. 1/50 to Dec. 31/50	404	48.48	121.24
	Jan. 1/51 to Mar. 31/51	1,091	118.50	301.58
		9,154		\$ 1,021.98
Pickerel	May 16/50 to Sept. 30/50	55,870	\$ 4,182.36	\$ 9,555.71
	Oct. 1/50 to Dec. 31/50	39,849	4,537.16	7,971.86
	Jan. 1/51 to Mar. 31/51	34,813	3,802.98	6,154.28
		130,532		\$ 12,522.50
Pike	May 16/50 to Sept. 30/50	141,291	\$ 4,722.98	\$ 11,187.28
	Oct. 1/50 to Dec. 31/50	87,298	7,733.78	9,377.79
	Jan. 1/51 to Mar. 31/51	144,959	9,837.08	17,433.81
		373,548		\$ 22,293.84
Tullibee	May 16/50 to Sept. 30/50	2,507,654	\$ 66,604.99	\$106,886.71
	Oct. 1/50 to Dec. 31/50	762,368	19,384.95	37,955.40
	Jan. 1/51 to Mar. 31/51	321,682	10,877.00	11,007.48
		3,591,704		\$ 96,866.94
Perch	May 16/50 to Sept. 30/50	6,152	\$ 372.57	\$ 784.81
	Oct. 1/50 to Dec. 31/50	6,796	697.83	880.98
	Jan. 1/51 to Mar. 31/51	6,150	616.22	776.88
		19,098		\$ 1,686.62
Mixed Fish (Ling. Suckers)	May 16/50 to Sept. 30/50	217,030	\$ 4,021.10	\$ 5,566.75
	Oct. 1/50 to Dec. 31/50	84,685	2,510.00	2,572.50
	Jan. 1/51 to Mar. 31/51	76,915	2,129.26	2,172.51
		378,630		\$ 8,660.36
		6,611,100		\$381,018.63
				\$ 10,311.76
				\$652,000.34

## TROUT DISTRIBUTIONS, 1950

## CUTTHROAT TROUT

Water	No.	Age or Size	Date
Crow-Pincher District:			
Allison Cr. (Mahalsky dams) .....	350	Yearlings	25-6-50
Allison Cr. (Mahalsky dams) .....	400	6"	25-6-50
Beauvais Lake .....	350	Yearlings	24-6-50
Beauvais Lake .....	250	"	22-6-50
Beauvais Lake .....	375	"	24-6-50
Blairmore Cr. ....	600	"	23-6-50
Castle R. (West branch) .....	600	6"	26-6-50
Castle R. (West branch) .....	470	Yearlings	26-6-50
Castle R. (East branch) .....	400	"	27-6-50
Pincher Cr. (Daigle's) .....	510	6"	26-6-50
Waterton River (dams) .....	207	6"	28-6-50
	4,512		

## Willow Creek Drainage:

Chaffen Cr. (Beaver dams) .....	950	Yearlings	21-6-50
Chaffen Cr. ....	600	"	16-6-50
Chaffen Cr. (Beaver dams) .....	1,000	"	13-6-50
Chaffen Cr. ....	998	"	12-6-50
Iron Cr. (Beaver dams) .....	450		15-7-50
Lyndon Cr. ....	1,000		9-6-50
Lyndon Cr. ....	1,000	Yearlings	8-1-50
Lyndon Cr. ....	1,000	"	7-6-50
Lyndon Cr. ....	1,000	"	6-6-50
Lyndon Cr. ....	1,000	"	3-6-50
Riley Cr. (Beaver dams) .....	400	"	17-6-50
Riley Cr. (Beaver dams) .....	450	6"-9"	9-7-50
Trout Cr. ....	1,000	Yearlings	30-5-50
Trout Cr. ....	1,497	"	1-6-50
Trout Cr. ....	1,000	"	2-6-50
Trout Cr. ....	1,000	"	29-5-50
Trout Cr. ....	1,000	"	10-6-50
Westrup Cr. (Beaver dams) .....	450	6"-9"	8-7-50
Willow Cr. (North branch) .....	450	6"-9"	7-7-50
Willow Cr. (North branch) .....	450	6"-9"	14-7-50
Willow Cr. (Beaver dams) .....	450	6"-9"	12-7-50
Willow Cr. (Beaver dams) .....	450	6"-9"	11-7-50
Willow Cr. (North branch) .....	450		10-7-50
	18,045		

## Highwood River Drainage:

Canyon Cr. ....	997	Yearlings	27-6-50
Flat (Trap) Cr. ....	999	"	6-7-50
Flat (Trap) Cr. ....	500	"	8-7-50
Lone Prairie Cr. (Beaver dam) .....	1,000	"	30-6-50
Sheep Cr. ....	998	"	28-6-50
Sullivan Cr. ....	1,000	"	3-7-50
Sullivan Cr. ....	1,000	"	1-7-50
Yesky Cr. ....	999	"	27-6-50
Yesky Cr. (Beaver dams) .....	998	"	26-6-50
	8,491		

## Bow-Elbow River Drainages:

Fish Cr. ....	1,000	Yearlings	4-7-50
Fish Cr. ....	1,000	"	26-6-50
Fish Cr. (Beaver dams) .....	1,000	"	28-6-50
Iron Cr. ....	150	"	18-7-50
McLean Cr. (Beaver dams) .....	1,000	"	28-6-50
McLean Cr. ....	450	"	7-7-50
McLean Cr. ....	1,100	"	8-7-50
Pothole Cr. (Beaver dams) .....	150	"	13-7-50
Whiskey Cr. (Beaver dams) .....	350	"	13-7-50
Whiskey Cr. (Beaver dams) .....	750	"	21-6-50
Fish Cr. ....	250	"	21-6-50
	7,200		

## EASTERN BROOK TROUT

Beaver Cr. (Raven) .....	95	2 years	22-6-50
Blackstone R. (Nordegg) .....	99	"	26-5-50
Blueberry Cr. (Leslieville) .....	221	"	6-6-50
Cold Lake .....	508	"	14-5-50
Cold Lake .....	3,400	Yearlings	14-5-50
Haven Cr. (Nordegg) .....	205	2 years	26-5-50
Hazelton Cr. (Sundre) .....	320	"	9-6-50
Lookout Cr. (Nordegg) .....	50	"	26-5-50
Spring Cr. (Rocky Mtn. House) .....	99	"	23-5-50
Swan Cr. (Rocky Mtn. House) .....	110	"	23-5-50
Sundance Cr. (Edson) .....	48	"	14-6-50
White Goat R. (Nordegg) .....	99	"	14-6-50
	5,254		

## Eyed Eggs: Eastern Brook Trout

Cold Lake .....	208,260	10-12-50
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## LOCH LEVEN TROUT

Bearberry Cr. ....	350	2 years	10-6-50
Bearberry Cr. ....	495	"	9-6-50
Beaverdam Cr. ....	2,992	Fingerlings	19-7-50
Cow Cr. ....	421	2 years	3-6-50
Dog Pound Cr. ....	889	"	12-6-50
Dog Pound Cr. ....	1,062	"	13-6-50
Fallen Timber Cr. ....	560	"	8-6-50
Fallen Timber Cr. ....	464	"	7-6-50
Fallen Timber Cr. ....	625	"	5-6-50
Horseguard Cr. ....	51	"	5-6-50
Lobstick Cr. (Leslieville) ....	374	2 years	5-6-50
Mud Cr. ....	175	"	2-6-50
Mud Cr. ....	505	"	3-6-50
N.A.R.D. dam (Rocky Mtn. House) ....	61	"	2-6-50
Prentice Cr. ....	286	"	2-6-50
North Raven River .....	538	"	2-6-50
Shunda Cr. ....	526	"	29-5-50
Spring Cr. ....	75	"	9-6-50
Spring Cr. ....	334	"	3-6-50
Whitehorse Cr. ....	510	"	30-6-50
	11,293		

## RAINBOW TROUT

## Crow-Pincher District:

Allison Cr. (Beaver dams) .....	2,520	Fingerlings	22-6-50
Beaver Cr. (Lane pond) .....	300	3"-7"	7-3-50
Beaver Cr. (Buchanan dams) .....	1,007	Fingerlings	27-6-50
Beauvais Lake .....	4,166	"	27-6-50
Beauvais Lake .....	3,095	"	24-6-50
Beauvais Lake .....	3,096	"	24-6-50
Bennett Lake .....	260	"	23-6-50
Burnis Lake .....	1,425	Fingerlings	29-6-50
Butcher Cr. (N. Fork Drywood) .....	1,601	"	27-6-50
Cottonwood Cr. (Beaver dams) .....	2,520	"	23-6-50
Carpenter Cr. (Beaver dams) .....	2,884	Fingerlings	27-6-50
Crownest Lake .....	1,200	3"	24-6-50
Crownest Lake .....	400	Fingerlings	23-6-50
Foothills Cr. (Hastings Coulee) .....	2,660	"	26-6-50
Island Lake .....	2,400	"	23-6-50
Island Lake .....	2,240	"	24-6-50
Island Lake .....	1,500	"	25-6-50
Lang's Lake .....	1,080	"	28-6-50
Livingston R. (Beaver dams) .....	765	"	28-6-50
Pincher Cr. ....	1,500	"	30-6-50
Pine Cr. (Beaver dams) .....	3,060	"	23-6-50
Stewart Lake .....	1,606	"	25-6-50
Todd Cr. (Beaver dams) .....	2,520	"	22-6-50
Yarrow Cr. (Beaver dams) .....	2,380	"	23-6-50
Zoteman dam .....	765	3"	28-6-50
	46,950		

## Highwood River Drainage:

Hartell Lake .....	500	Yearlings	19-7-50
Hartell Lake .....	500	"	23-7-50
Sheep River .....	500	"	18-7-50
Sheen River (Beaver dams) .....	500	"	27-7-50
Sheep River (Beaver dams) .....	696	"	28-7-50
	2,696		

## Bow-Elbow Drainage:

Elbow River .....	807	Yearlings	9-6-50
Elbow River .....	930	"	9-6-50
Elbow River .....	1,055	"	16-6-50
Elbow River .....	675	"	7-7-50
Iron Cr. ....	600	"	18-7-50
Kananaskis Lake (Upper) .....	1,985	"	27-6-50
Pirmez Cr. ....	1,128	"	21-6-50
	<u>7,180</u>		

## Other Districts:

Pot Hole Dam (Magrath) .....	2,627	Fingerlings	7-9-50
Johnson Lake (Willow Cr.) .....	1,100	Yearlings	13-7-50
Fox Lake (Rocky Mtn. House) .....	550	"	20-5-50
Michell Lake (Rocky Mtn. House) .....	415	"	20-5-50
Struble Lake (Rocky Mtn. House) .....	900	"	20-5-50
Twin Lakes (Rocky Mtn. House) .....	450	"	22-5-50
Cow Lake (Rocky Mtn. House) .....	700	"	22-5-50
Spring Cr. (Rocky Mtn. House) .....	784	"	22-5-50
Goldeye Lake (Nordegg) .....	1,875	"	29-5-50
Obed Lake (Edson) .....	1,500	"	17-5-50
	<u>10,901</u>		

## PERCH TRANSFERS

Water	Amount	Source	Date
Bear Lake (Grande Prairie) .....	300	Lesser Slave	1-8-50
Chain Lake (Lacombe) .....	4,000	Pine Lake	20-7-50
Crimson Lake (Rocky Mtn. House) .....	5,000	Pine Lake	19-7-50
Eagle Lake (Strathmore) .....	4,500	Pine Lake	14-7-50
Fish Lake (Drumheller) .....	5,000	Pine Lake	13-7-50
Francis Lake (Athabasca) .....	10,000	Baptiste Lake	1-8-50
Jackfish Lake (Lacombe) .....	4,000	Pine Lake	18-7-50
North Narrows Lake (Athabasca) .....	4,000	Baptiste Lake	27-7-50
	<u>36,800</u>		

## FORAGE FISH TRANSFER

Sylvan Lake .....	9,800	Hardisty Lake	4-8-50
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## PICKEREL—Eyed Eggs

Water	Amount	Date
Battle Lake .....	170,000	22-5-50
Bear Lake .....	250,000	21-5-50
Chin Lake .....	375,000	22-5-50
Conjuring Lake .....	170,000	22-5-50
Crystal Lake .....	200,000	22-5-50
Devils Lake .....	255,000	22-5-50
Eden Lake .....	170,000	22-5-50
Elkwater Lake .....	250,000	22-5-50
Garner Lake .....	764,000	22-5-50
Hanmore Lake .....	305,600	22-5-50
Henderson Lake .....	375,000	22-5-50
Marlboro Lake .....	125,000	21-5-50
Muriel Lake .....	779,280	23-5-50
Newell Lake .....	1,250,000	21-5-50
Pigeon Lake .....	680,000	22-5-50
Tank Lake .....	125,000	22-5-50
Wabamun Lake .....	1,275,000	22-5-50
Thunder Lake .....	400,000	22-5-50
	<u>7,918,880</u>	

## TOTAL DISTRIBUTIONS

Cutthroat trout .....	38,248
Eastern Brook trout .....	213,514
Loch Leven trout .....	11,293
Rainbow trout .....	67,727
Perch .....	36,800
Forage fish .....	9,800
Pickrel .....	7,918,880
	<u>8,296,262</u>



SURVEYS

Preliminary biological surveys carried out during 1950:

OLDMAN RIVER DRAINAGE

Castle River  
West Castle River  
Carbondale River  
Lynx Creek  
Gardiner Creek  
Lost Creek  
Mill Creek  
Screwdriver Creek  
Gladstone Creek

NORTH SASKATCHEWAN RIVER DRAINAGE

Cline River  
Bighorn River  
Blackstone River  
Shunda Creek  
Tershishner Creek  
Brown Creek  
Chungo Creek  
Lookout Creek  
Chambers Creek  
Allstones, Haven and Gonika Creeks

OTHER SURVEYS

Jensen Reservoir (Pot Hole Coulee dam)  
Garner Lake (Spedden district)  
Elinor Lake (Lac La Biche district)  
Marie Lake (Cold Lake district)

Sketch map showing principal districts for trout, grayling and Rocky Mountain whitefish.

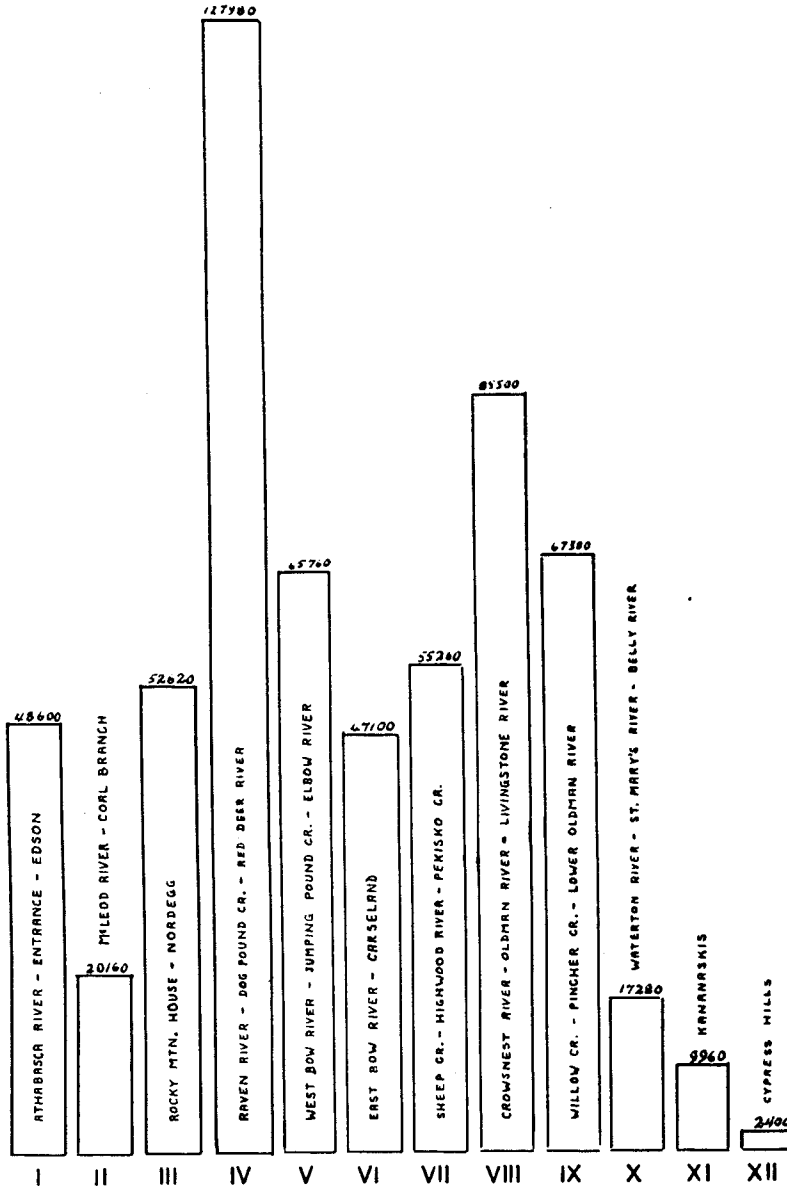


- I Edson - Entrance - Athabasca River
- II Coal Branch - McLeod River
- III Rocky Mountain House - Nordegg
- IV Raven - Dogpound Red Deer
- V West Bow River - Jumping Pound - Elbow
- VI East Bow River - Carseland
- VII Sheep - Highwood - Pekisko
- VIII Crowsnest - Oldman - Livingston
- IX Willow R. - Pincher - Lower Oldman

- X Waterton - St. Mary's - Belly River
- XI Kananaskis
- XII Cypress Hills and Others

The following six charts indicate angling estimates drawn from 1,700 completed 1950 angling permits received from fishermen.

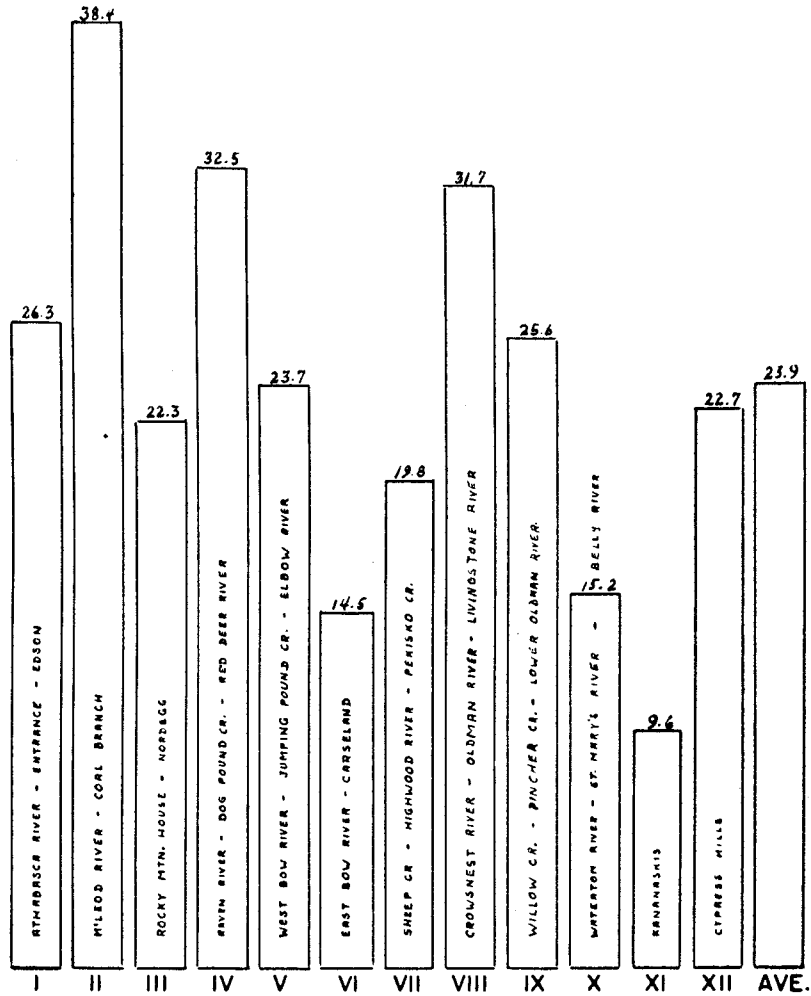
## TOTAL CATCH IN EACH DISTRICT



Approximately 600,000 trout, grayling and Rocky Mountain whitefish were caught by anglers during the 1950 season.

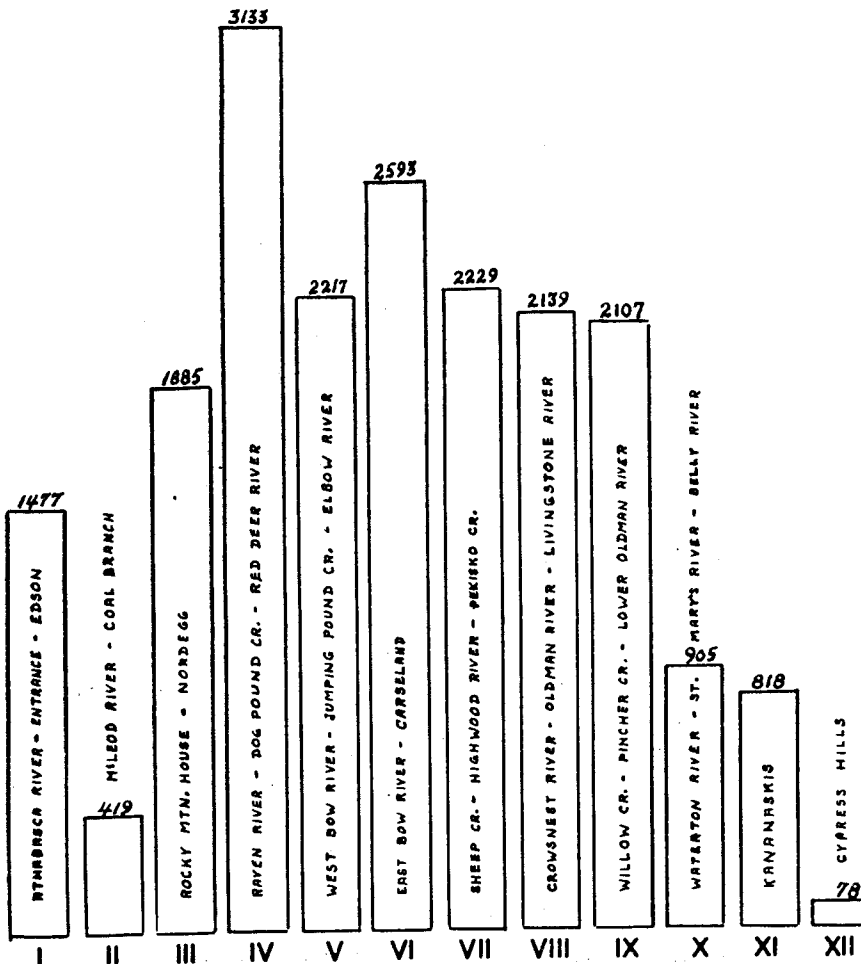
Catch statistics indicate that the greatest number of fish came the Raven-Dogpound-Red Deer River district. Excepting the Cypress Hills district, the lowest number of fish were taken from the Kananaskis area.

AVERAGE NUMBER OF FISH CAUGHT PER  
ANGLER IN EACH DISTRICT



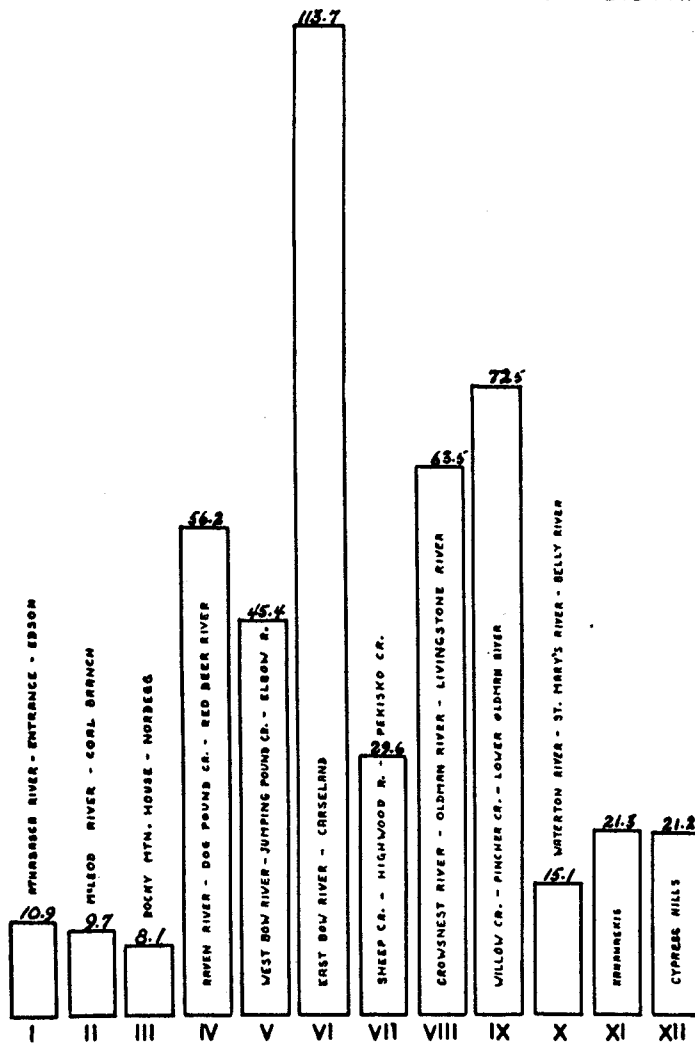
The average catch per angler for the 1950 season was approximately 24 fish. The upper McLeod River, Coal Branch district, led in this respect with a catch of 38 fish per angler. The Kananaskis district was the lowest with a catch of 10 fish per angler.

## DISTRIBUTION OF THE FISHING TRIPS OF 20000 ANGLERS



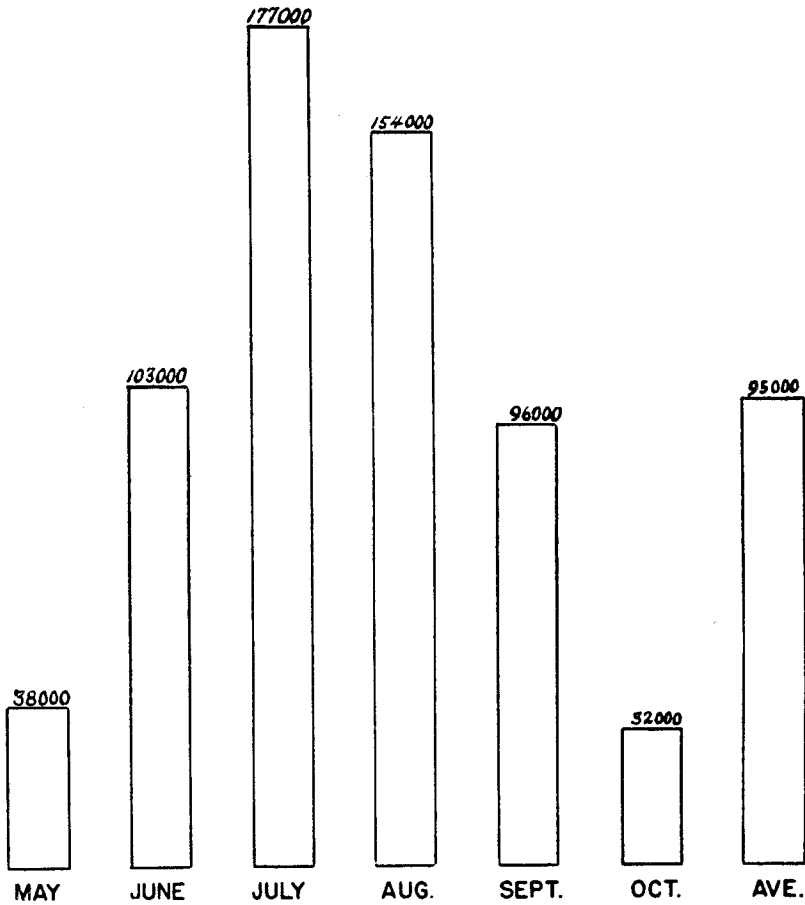
District angling pressure, in terms of the number of anglers throughout the season, was greatest in the Raven-Dogpound-Ded Deer River district. A total of 3,133 anglers, some several times, visited the area during the season. Excepting, perhaps, the Cypress Hills because of the small stream area involved, the lowest angling pressure figure occurs in the Upper McLeod River, Coal Branch district. A total of only 419 anglers fished in this area.

## TOTAL CATCH PER SQUARE MILE IN EACH DISTRICT

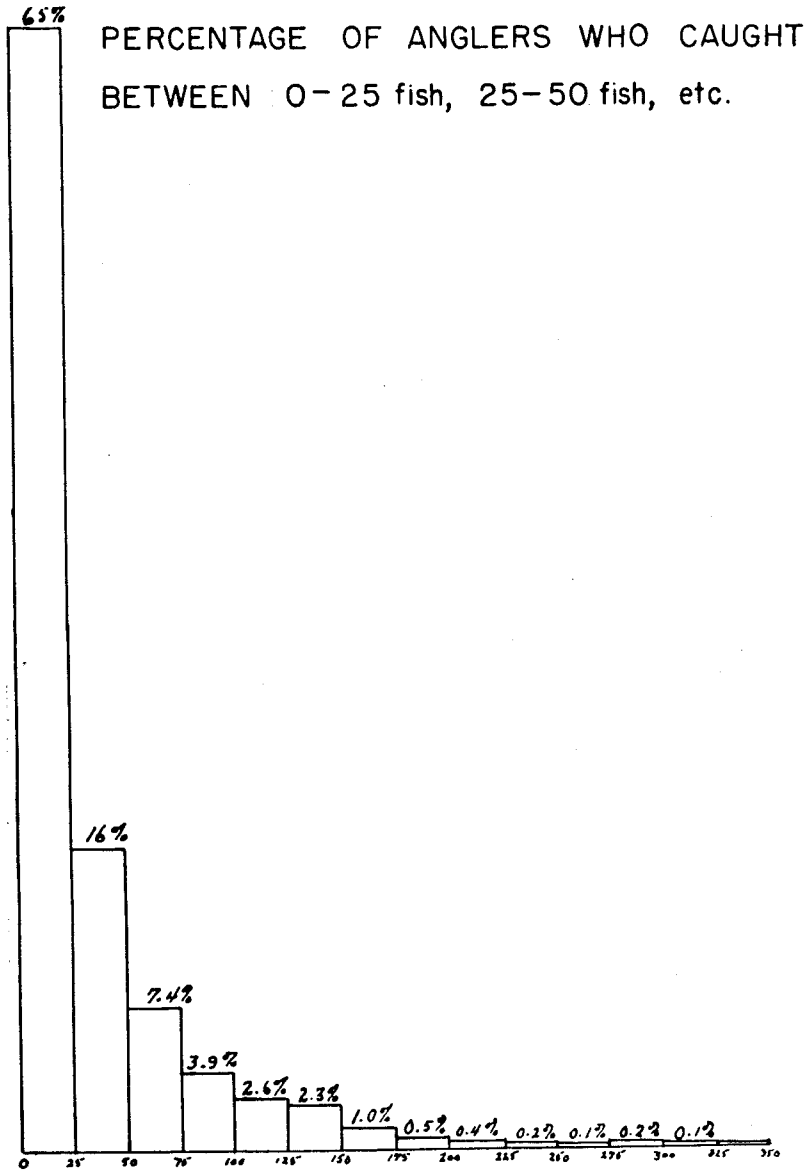


The catch per square mile was far the greatest in the East Bow-Carseland district and lowest in the Rocky Mountain House-Nordeg district.

## CATCH PER MONTH



July proved to be the most lucrative month in terms of returns per angler. About 15 fish per angler were caught over all districts during this month.

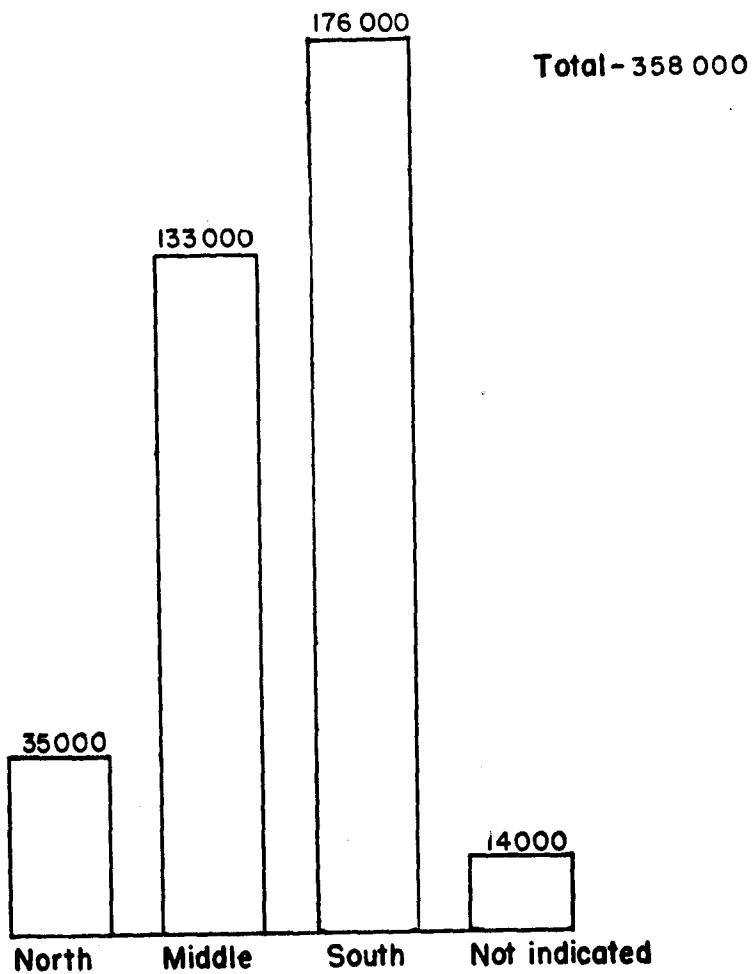


Careful analysis indicate that the quotation "one-quarter of the anglers catch three-quarters of the fish" held true for Alberta. Twenty-five percent of Alberta's anglers caught 75.13 percent of the fish taken. Some 3,000 anglers who bought permits did not catch a fish. It is estimated that about 500 of these did not fish after purchasing a license.

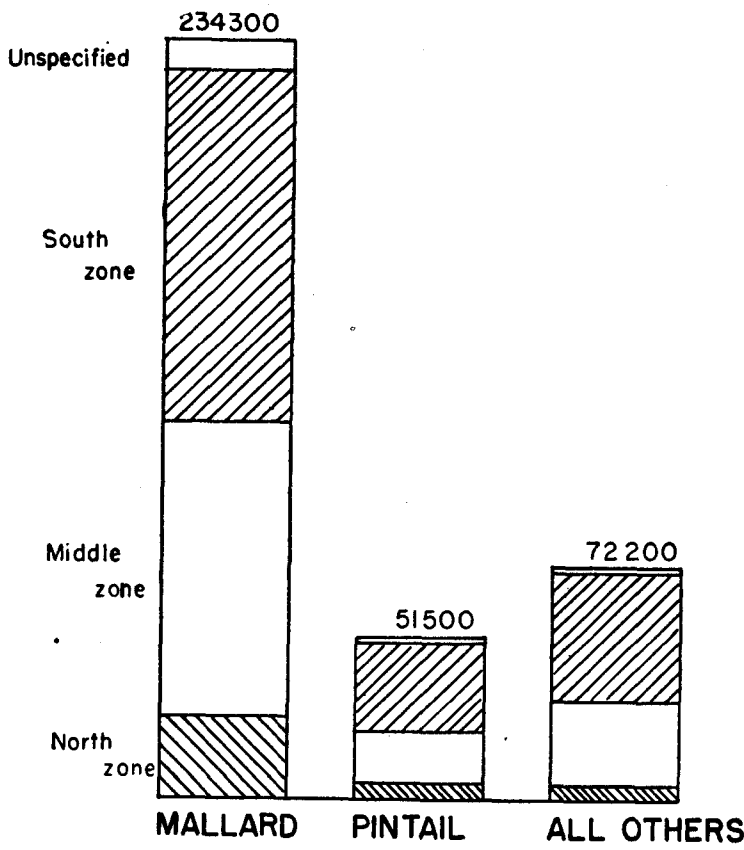


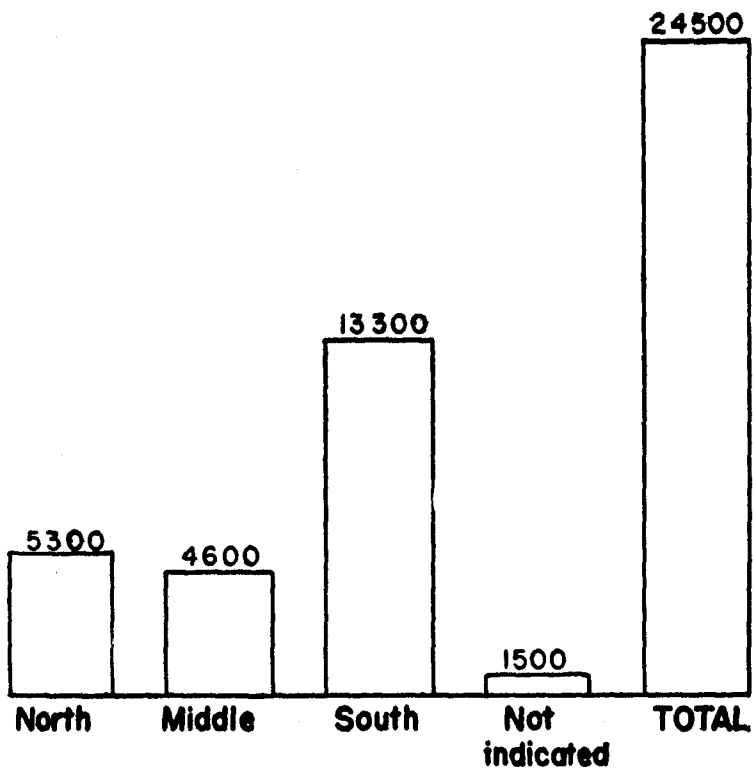
The following Graphs were obtained from Statistics shown on Bird and Big Game Licenses returned to the Department by the sportsmen.

### NUMBERS OF DUCKS BAGGED PER ZONE



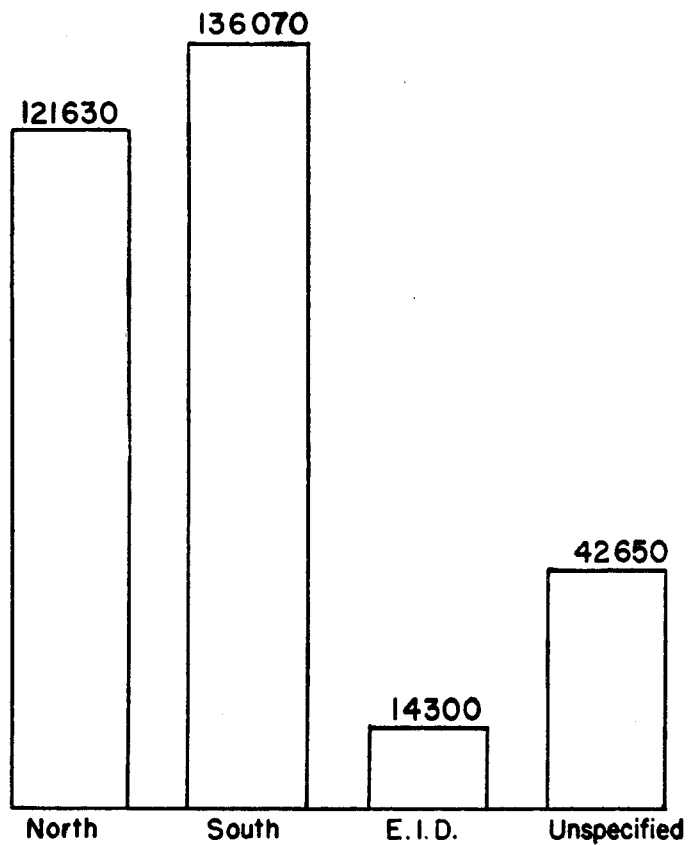
NUMBERS OF DUCKS BAGGED PER SPECIES



**NUMBERS OF GEESE BAGGED PER ZONE**

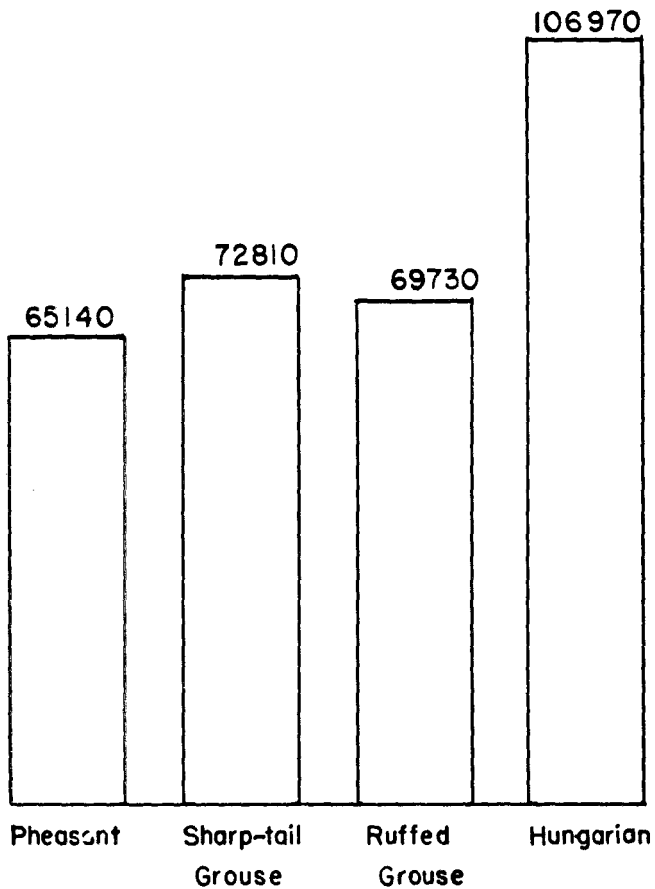
# NUMBERS OF UPLAND BIRDS BAGGED PER ZONE

TOTAL- 314650

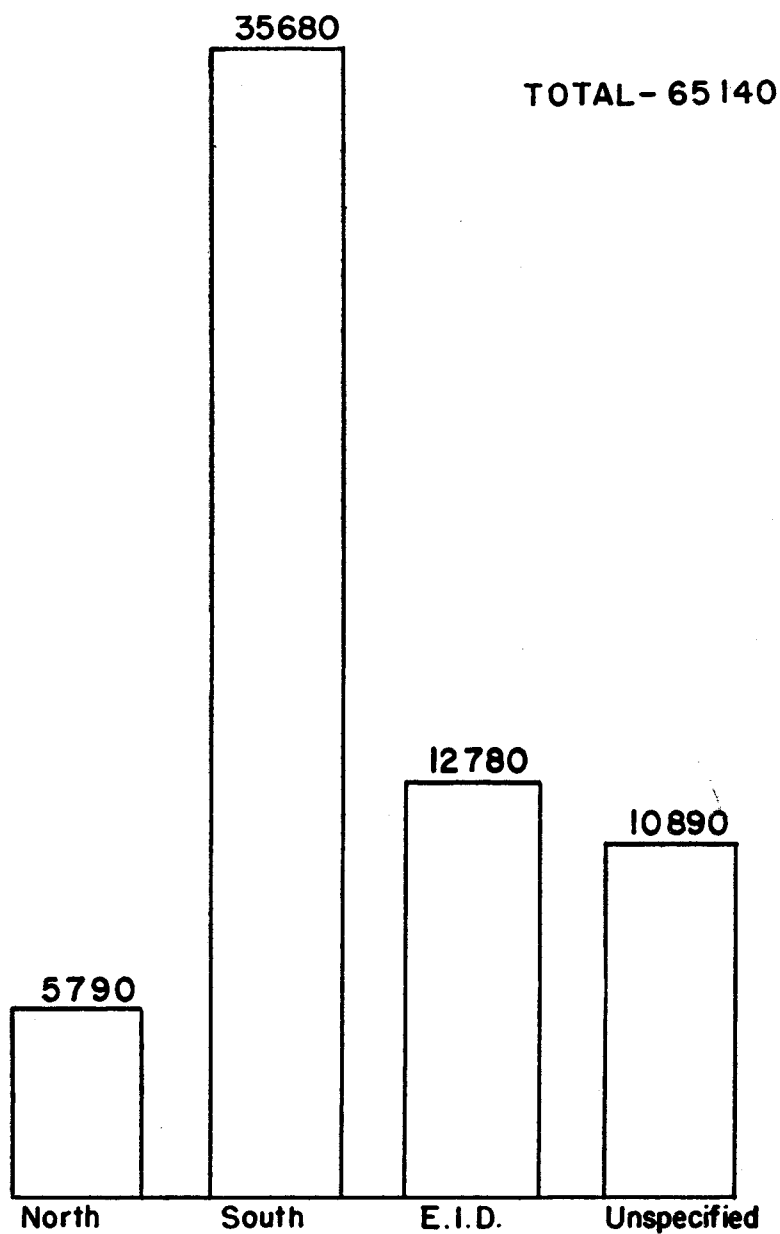


NUMBERS OF UPLAND BIRDS BAGGED  
PER SPECIES

TOTAL - 314650

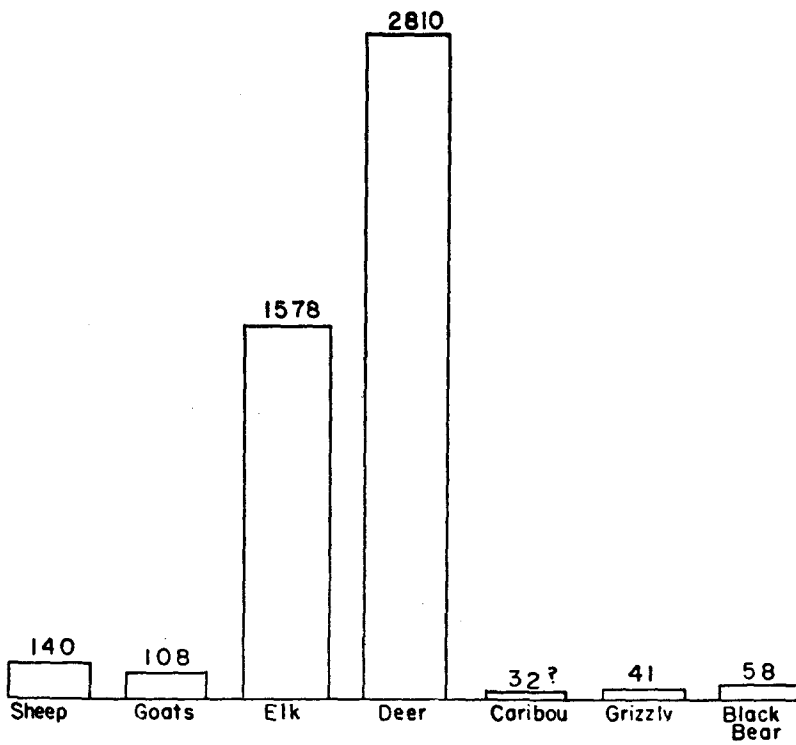


# NUMBERS OF PHEASANTS BAGGED PER ZONE

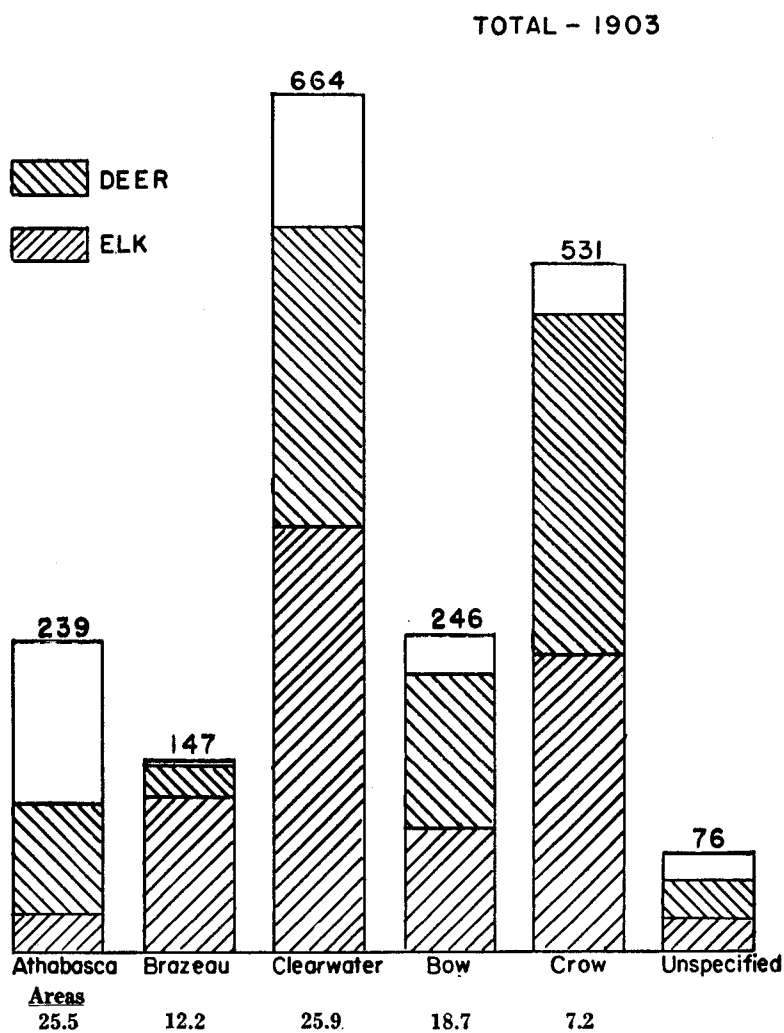


BIG GAME KILL BY SPECIES

TOTAL- 4766

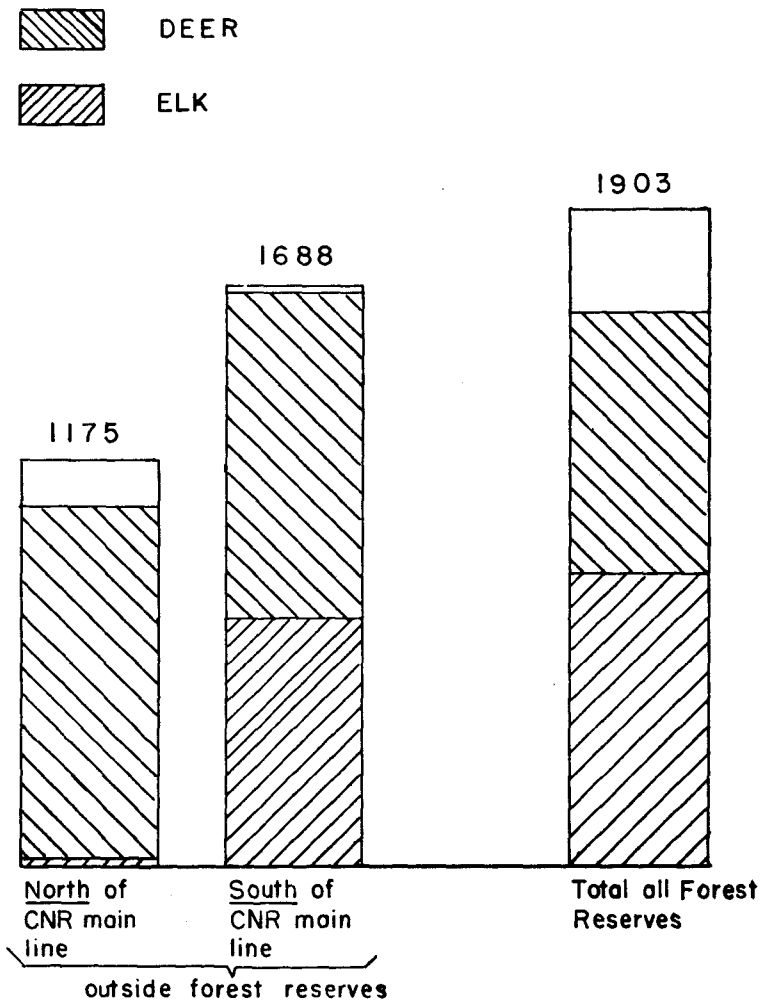


## BIG GAME KILL BY FOREST DISTRICTS





## COMPARISON OF BIG GAME KILL IN 3 SEPARATE AREAS



## Technical Division

### *Report of the Director of The Technical Division*

T. W. DALKIN

Legal descriptions were drafted for a total of 403 Notifications as compared with 407 during the previous year. The details of these 403 Notifications are classified as follows:

NOTIFICATIONS ISSUED DURING FISCAL YEAR, APRIL 1, 1950 TO MARCH 31, 1951  
(For Surface Rights)

Classification	Notifications	Area
Homesteads .....	40	5,834.43
Salcs (Including Lots in Subdivisions) .....	138	73,676.416
Second Homesteads .....	1	102.90
*Special Grants (Including new Indian Reservations) .....	17	43,378.16
Retransfer Back to Owner .....	1	147.14
Exchanges .....	4	641.00
School Land Sales (Including Lots in Subdivisions) .....	100	14,977.367
Release of Habendum .....	3	32.4586
Homestead Sales .....	99	18,979.33
	403	157,769.2015

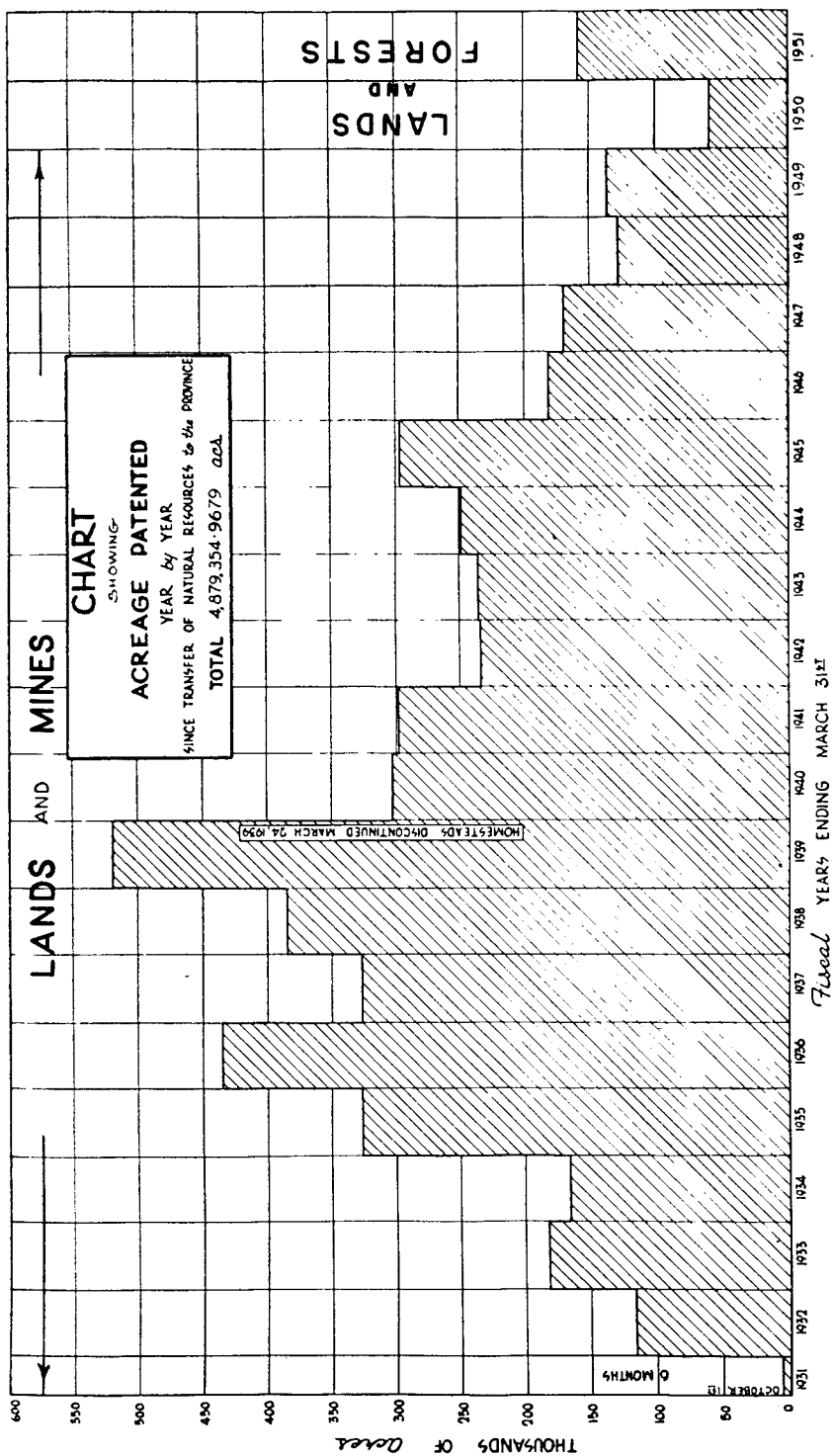
\* See table on page 78.

NO. OF SALES IN SUBDIVISIONS WHICH ARE INCLUDED IN THE 138 NOTIFICATIONS REFERRED TO ABOVE

Subdivision	Notifications	No. of Lots	No. of Blocks
Canmore—39 Gen. ....	14	37	9
Coleman—6808 C.U. ....	8	70	7
Donnelly—204 C.L. ....	1	1	1
Grand View—1109 B.F. ....	2	7	2
Seven Persons—610 W. ....	1	2	1
McMurray—616 A.O. ....	2	4	2
Peace River Land Settlement—2589 H.W. ....	6	11	Pt. River Lot 12
	34	132	22

SUBDIVISIONS INCLUDED IN THE 100 NOTIFICATIONS ISSUED UNDER SCHOOL LAND SALES

Subdivision	Notifications	No. of Lots	No. of Blocks
Red Deer Addition to Drumheler—2193 C.C. ..	2	2	2
McLennan—3194 E.U. ....	1	2	1
	3	4	3
	34 Sales		
Area not stated in these 37.....	3 School Land Sales		
Subdivision Notifications—Total .....			37
Total No. of Notifications in which area stated .....			366
Total No. of Notifications .....			403

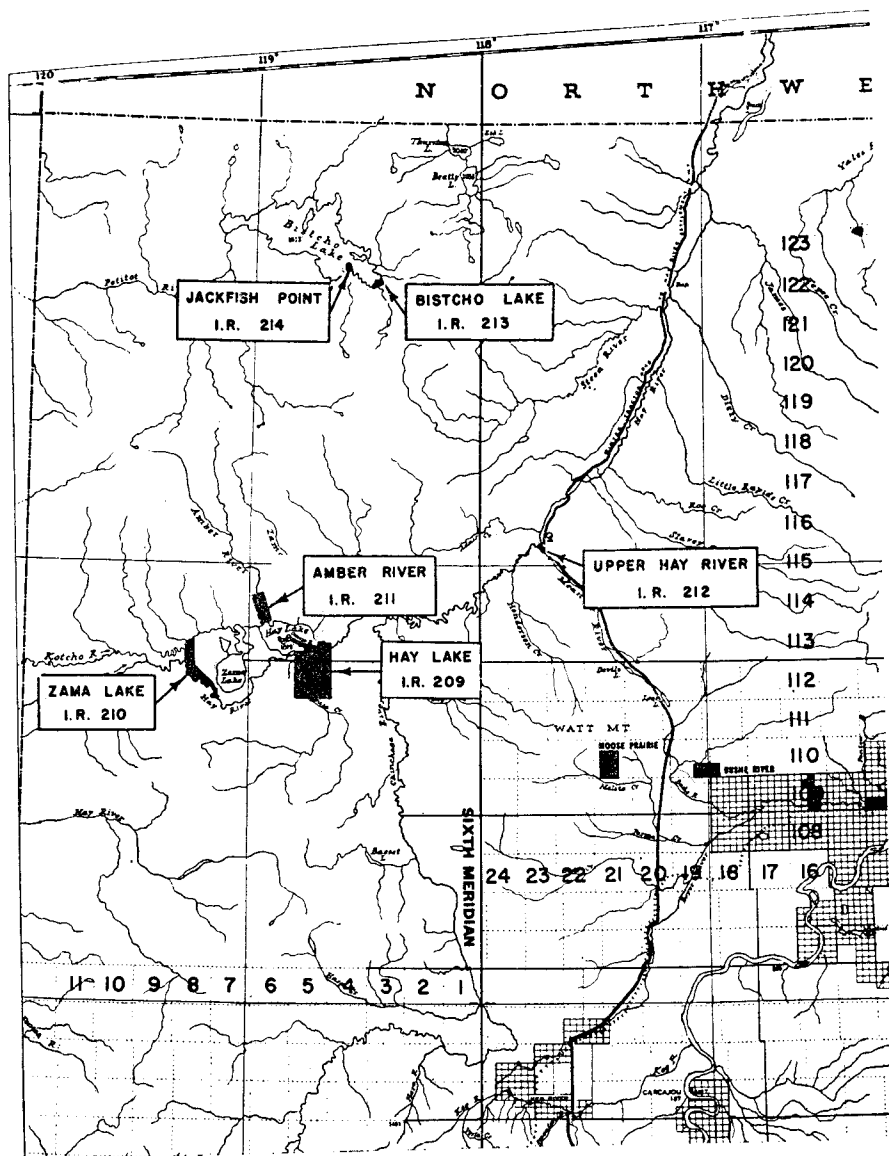


In the previous year an area of 58,219.184 acres was patented for the 407 Notifications, whilst the 403 Notifications issued this year entailed an area of 157,769.2015 acres. The establishment of six Indian reserves accounted partly for the larger area.

\* The following Indian Reserves are included in the Special Grants mentioned on Page 76.

	Area
Amber River Indian Reserve No. 211 .....	5,763.00
Hay Lake Indian Reserve No. 209 .....	30,530.00
Upper Hay River Indian Reserve No. 212 .....	115.00
Jackfish Point Indian Reserve No. 214 .....	256.00
Bistcho Lake Indian Reserve No. 213 .....	875.00
Zama Lake Indian Reserve No. 210 .....	5,701.00
	<hr/> 43,240.00

All these new Reserves are located in the northwesterly corner of the province, the two most northerly being Bistcho Lake Indian Reserve No. 213 and the Jackfish Point Indian Reserve No. 214, both of which are located on Bistcho Lake not far from the north boundary of the province.



The Notifications issued in favor of the Canada Land and Irrigation Company Limited represented a considerable area of the land patented. As the result of Order-in-Council No. 1196/47, which referred to a three-way agreement between the Dominion, the Province, and the Canada Land and Irrigation Company Limited, a total area of 67,774,991 acres was patented to this company. Of this total area, 66,014,991 acres were recovered by the company for taxes and the balance of 1,760,000 acres was purchased. These lands were located in the southern part of the Province in Townships 12 and 13, Range 12, Town-

ships 11, 12 and 13, Range 13, and Townships 11, 12, 13 and 14, Range 14, all West of the 4th Meridian.

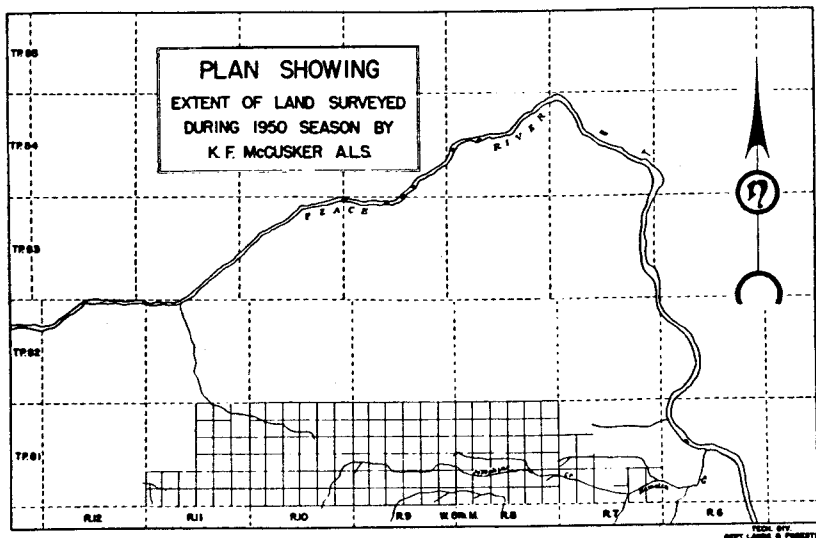
In a Province as large as Alberta it is not surprising to discover from time to time that Crown land has for many years been used and regarded as the property of the adjoining owner. Such a case was dealt with in this year's notifications when an area of land was sold and title granted to the City of Calgary. The land comprised an island in the Bow River in the N.E.  $\frac{1}{4}$  Section 10, Township 24, Range 1, West of the 5th Meridian, and due to the change in the course of the Elbow River the channel separating the island from Victoria Park became clogged and eventually was completely filled in and was regarded as part of the stamped grounds.

It was necessary to have the land surveyed so that it could be disposed of to the City of Calgary subject, however, to an habendum clause restricting the use of the land to stampede and exhibition purposes and prohibiting such land to be subdivided into town lots.

### LAND SURVEYS

It is gratifying to report that at long last it was possible to start subdividing lands in the Peace River area for land settlement purposes. Mr. K. F. McCusker was in charge of the survey party, which commenced operations in June, but stopped at the beginning of November because of weather conditions. Although the lands surveyed were cut by deep ravines good progress was made and it was possible to open for settlement approximately four new townships of surveyed lands.

As the survey progressed away from the Hamelin and Josephine Creeks, one of the main difficulties encountered by the survey party was the lack of water.



The survey camp was visited during the season and it was obvious that the men were working under favorable conditions and were supplied with very commendable food.

It is to be hoped that arrangements can be made to continue this survey next year.

### BOUNDARIES BETWEEN ALBERTA, BRITISH COLUMBIA, NORTHWEST TERRITORIES AND WOOD BUFFALO PARK

Progress continues to be made on the three boundary surveys. The completion of these ground surveys was imperative due to the search for oil spreading to the remote unsurveyed areas to the north and west and adjoining the north and west boundaries of our Province.

The Wood Buffalo Park boundary and the north boundary of the Province are being surveyed under the agreement with the Dominion, whereby the department pays one-half of the costs.

The British Columbia boundary is under a three-way agreement, wherein the Dominion government, the British Columbia government and this department each pays one-third of the costs.

From indications it would seem that the Wood Buffalo Park boundary at least may be completed after next season's operations.

### ROAD SURVEYS

The number of surveys of road diversions received from the Department of Public Works and municipal districts, affecting Crown lands, are still on the decline. This year only twenty of these plans were received affecting fifty-nine quarter-sections of public land.

### OTHER SURVEYS

As the services of Alberta Land Surveyors are at a premium, because of an unprecedented programme of surveys required by the oil companies, it has not been possible to give any consideration to surveys of unsurveyed lands for settlement and other incidental surveys of public lands required by this Department. Reports reveal that municipalities are in a similar predicament and until the situation eases, a great amount of survey work must be held in abeyance.

Due to the large number of applications for timber berths it was necessary to organize a survey party from the Technical Staff to make certain surveys in order that the areas could be surveyed and properly tied in to our records before the issue of the leases.

This Division was approached by one of the major oil companies to survey certain areas in which it was interested, the survey to be done on a mutual assistance basis. Our aerial photographs and other data available in this Division showed that the land was undesirable from an agricultural point of view, and

the company was advised that under the circumstances the Department could not participate in such a project.

### DESTRUCTION OF SURVEY MONUMENTS

Reports are being received of the disturbance and destruction of survey monuments in surveyed areas where oil exploratory parties are active. Every opportunity is taken to warn the representatives of the oil companies and their crews as to the seriousness of the offence and to safeguard against this destruction, they are advised that township plans are available showing the location of every survey monument so that it can be conspicuously flagged before commencing bulldozing operations. On July 17th, 1950, Order-in-Council No. 917/50 was passed establishing regulations governing these exploratory operations in an endeavor to curb this destruction and at the same time establish the proper procedure governing exploratory operations for minerals on public lands.

### PLANS OF SURVEY OF WELLSITES AND ACCESS THERETO

The oil activity resulted in a decided increase in the number of plans of survey that were submitted showing the location of wellsites and access thereto on crown lands. These plans, when checked and approved by this Division, are submitted by the oil companies to the Right of Entry Arbitration Board in order that permission may be granted by the Board to enter upon the land, for which, fair and just compensation is awarded by the Board to this Department.

In addition to the wellsite plans, plans of survey were also submitted necessitating six river crossings to carry oil and gas. The most important project was that of the Interprovincial Pipe Line through which Alberta's oil flows to the markets of the East and intermediate points.

The locations of the pipe lines, three of which carry oil and three carry gas, over the river crossings are as follows:

Devonian Natural Gas Co. Ltd.—North Saskatchewan River—SW  $\frac{1}{4}$  35-50-26-W4th Mer.  
 Devonian Natural Gas Co. Ltd.—North Saskatchewan River—SW  $\frac{1}{4}$  3-51-26-W4th Mer.  
 Canadian Western Natural Gas Co. Ltd.—North Saskatchewan River—6th Street E.,  
 Calgary.  
 Interprovincial Pipe Line Co.—North Saskatchewan River—Pt. NW  $\frac{1}{4}$  28 and E  $\frac{1}{2}$  29-  
 53-23-W4th Mer.  
 Interprovincial Pipe Line Co.—Sturgeon River—NW  $\frac{1}{4}$  32-55-22-W4th Mer.  
 Interprovincial Pipe Line Co.—Battle River—NE  $\frac{1}{4}$  25-42-10-W4th Mer.

### MAPS

The work of revising and bringing our 16-mile map up-to-date was continued and tracings dispatched to the lithographer. From year to year there is an ever-increasing demand for this particular map.

Nine maps were made for a Peace River land settlement booklet, to be issued by the Department. The Senior Soils Surveyor of the Alberta Research Council and the Director of Lands are joint authors of the publication. The maps included areas which coincide with the Dominion Sheet Maps known as Iosegun,



Wapiti, Smoky River, Dunvegan, Shaftesbury, Montagneuse, Notikewin, Wolverine, the west half of the Mikkwa sheet and the east half of the Mustus sheet, representing an area extending from south of Grande Prairie to a few miles north of the Fort Vermilion area.

These maps give a bird's eye view of the patented and settled areas and lands available for settlement. They also show the areas in which settlement is not permitted.

The key map showing the lands open and closed for settlement in the Province was again revised and a re-issue was obtained for distribution.

A new map was prepared and lithographed showing the revised boundaries of the Provincial Electoral Districts. As the 16-mile map of the Province was being revised this new map not only fitted into our map work but it was also possible to effect a considerable saving in the cost of the electoral maps.

### MUNICIPAL BOUNDARIES CHANGED

When the boundary line is changed upon a map it invariably necessitates changes in our records, and when the Department of Municipal Affairs revised the boundaries of the Municipal and Improvement Districts this was no exception to the rule. In the records of this Division are thousands of certificates of title in the name of the crown, representing lands that have been acquired through tax recovery proceedings and lands that have been revested. Arrangements were made with the Department of Municipal Affairs whereby all unalienated tax recovery lands that were formerly located in an Improvement District and through the change in the boundaries are now located within a Municipal District, will be transferred to that Department. Tax recovery lands that are alienated in our records by means of leases, etc., will be transferred to the Department of Municipal Affairs upon the expiration of the leases. This work is steadily proceeding in order to accomplish this arrangement.

### AERIAL SURVEY

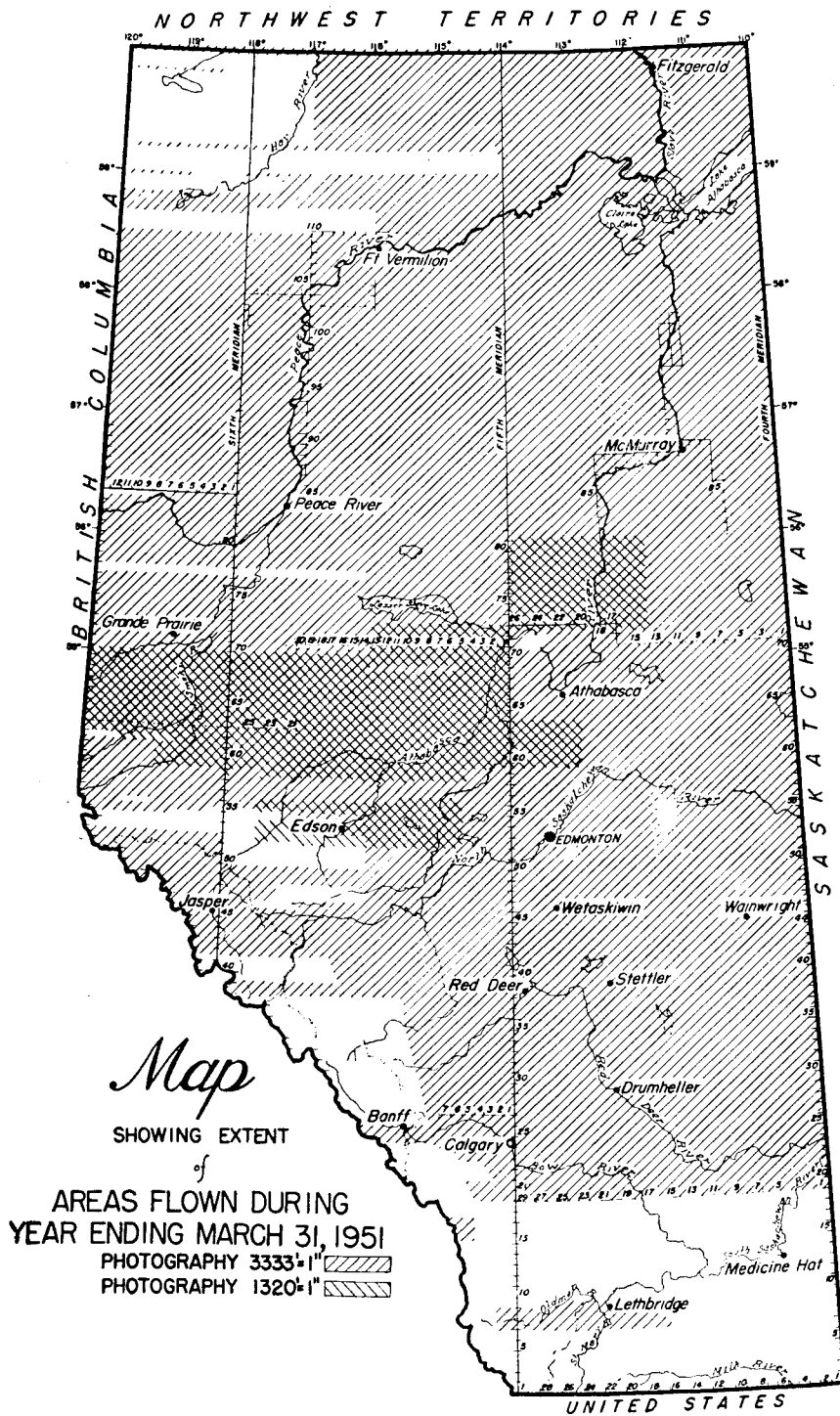
Considerable progress can be reported in the aerial survey of our Province as far as the 3,333 feet to the inch photography is concerned. Up to the end of this fiscal year

the total area flown .....	208,069 sq. miles
Area flown in previous year .....	47,597 sq. miles
Amount flown this year .....	160,472 sq. miles

With regard to the 1,320 feet to the inch photography, the total area flown this year amounts to 23,354.95 square miles.

The map included in this report shows the extent of the areas photographed. With the exception of a few strips, the areas yet to be flown are in the southerly and northwesterly portions of the Province. These areas cover,

for the 3,333-feet-to-the-inch photography .....	47,216 sq. miles
and for the 1,320-feet-to-the-inch photography .....	36,645 sq. miles



### PHOTOGRAPHIC LIBRARY

As the aerial photographing of the Province proceeds, photographic prints are made available for our library. This entails detailed indexing so that prints of any area can be made available immediately.

27,933 photographs have been indexed on three-miles-to-the-inch maps.

The oil companies undertaking exploratory operations within the Province are keenly interested in these photographs, and by the number of visitors to the library it is apparent that these photographs have rendered a great service to the oil survey parties in the field.

Industrialists, surveyors and engineers find this photography of great assistance. Lumber companies have also shown great interest, mainly in the 1,320-feet-to-the-inch photography as the larger scale shows more clearly the forest coverage.

Our stock of prints in the library is as follows:

3,333-feet-to-the-inch photography .....	55,136
1,320-feet-to-the-inch photography .....	36,148
1,320-feet-to-the-inch R.C.A.F. photography .....	27,028

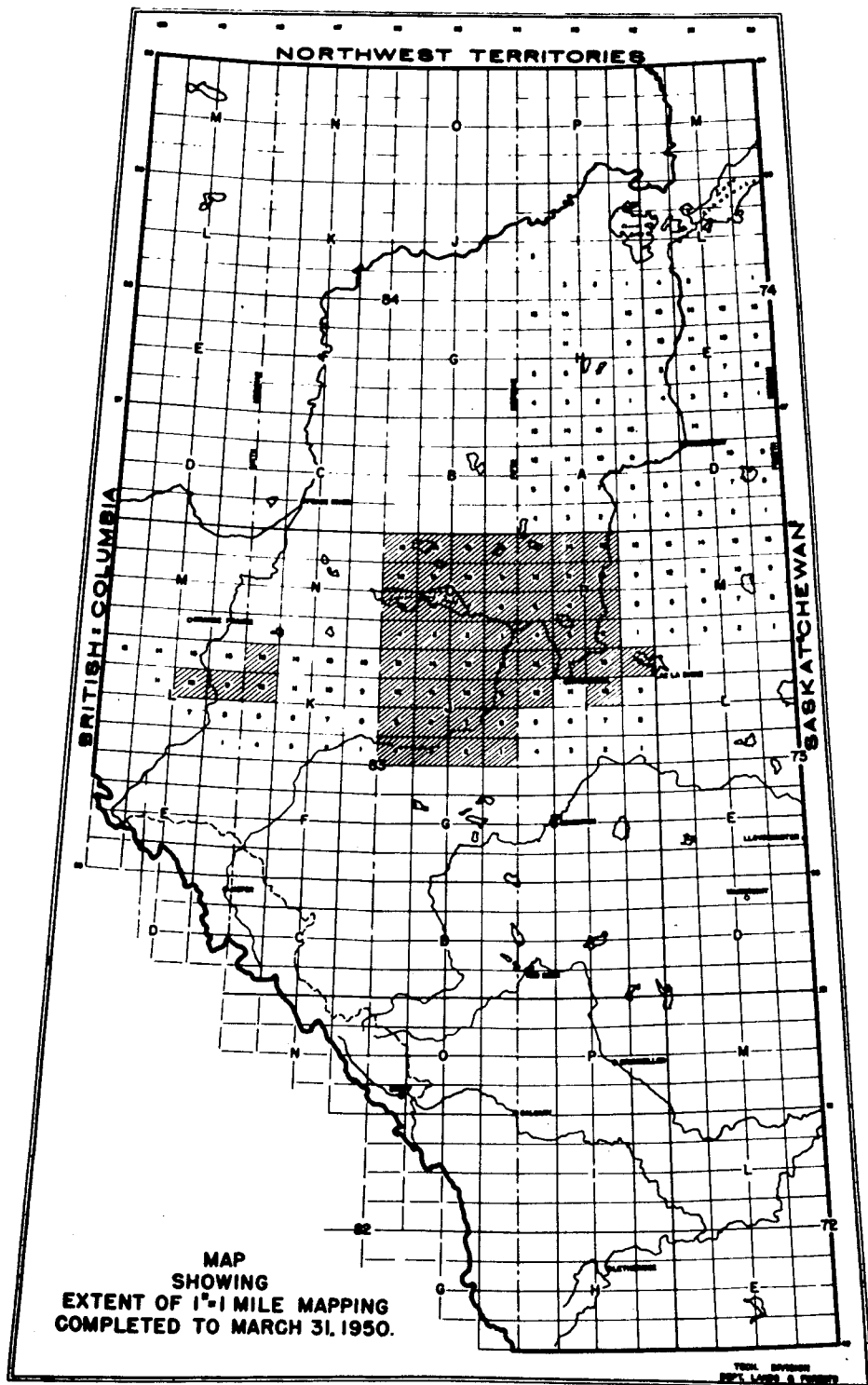
Considering that this is the first year the library has been opened a gratifying amount of business has been done in the sale of prints. During the past year prints sold of the 3,333-feet-to-the-inch photography numbered .....	18,355
for Departmental projects .....	643
Number of 1,320-feet-to-the-inch photography prints sold .....	1,421
for Departmental projects .....	892

Total number of prints .....	21,311
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Owing to the fact that our agreement with the Photographic Survey Corporation calls for the delivery of planimetric maps to be compiled from the aerial photographs, it is necessary for the films to be kept in Toronto. Until these films are no longer required for the mapping, it is necessary to have all prints developed in Toronto. As soon as it is possible to release these films, they will be safely stored in Edmonton, where it will be possible to develop our own prints and thus give a faster service not only to the public but to the various departments requiring photography.

### MAP CHECKING

With reference to the planimetric mapping referred to above, proof sheets of all areas are submitted to this Division for checking. Checking is very exacting work as it is most important that no maps be released until they meet our rigid requirements. An idea of the meticulous work required in checking of the proofs can be gathered from the fact that each photograph measuring about ten inches square and covering approximately 30 square miles is photographed from a height of 20,000 feet above ground level. These photographs are carefully examined



through the stereoscope so that the information upon the map will conform with the features as revealed by the camera.

There is no doubt that with the publication of these planimetric maps many of our existing maps, particularly in the unsurveyed areas of the Province, will show inaccuracies in the location and contour of lakes, rivers and watersheds. This is quite understandable when it is recollected that the surveyors in the olden days did all the surveying on foot and were unable to spend the time in the outlying unsurveyed areas to insure the accuracy that can now be obtained with a camera in a plane flying at great heights above the ground.

Approximately 600 of these maps will cover the Province and 92 proofs comprising an area of 31,743 square miles have been checked. Of this area, 54 planimetric maps covering 18,576 square miles have been completed and have found a ready sale to oil companies and the general public.

As the work progresses aluminum-backed manuscripts will be delivered and also fair drawn maps on auto-positive film. To date, 15 aluminum backed manuscripts and 15 fair drawn maps on auto-positive film scale 3,333 feet have been received.

### MAPPING

Apart from the final checking of the proofs undertaken incidental to the contract, a fair amount of mapping has been done by our own staff for public and departmental purposes as follows:

Template lay-down 3,333-feet-to-the-inch	
(unsurveyed area) .....	5,706 sq. miles
Forestry detailed mapping 1,320-feet-to-the-inch	864 sq. miles

This template lay-down method has proven to take about one-tenth of the time and cost of having a survey party in the field and for certain types of investigations is just as accurate.

### PHOTO-GRIDDING

A total of 364 forestry applications were referred to this Division for gridding, or in other words, the superimposing of survey lines so that the legal location of the areas applied for could be definitely established.

### MOSAICS

An area of approximately 5,570 square miles was mosaicked for the general public and governmental departments. Mosaics have proven to be of great value not only to industry but also to the Department of Highways and the Water Resources Branch, because mosaics of large areas may be studied for drainage and types of terrain. A practical example of this was the 3,333-foot-to-the-inch photo map extending from Whitecourt to Valleyview which was assembled for the Department of Highways. This mosaic enabled the engineers to obtain an over-all picture of the topography of the area, from which it was possible

to locate the practical route for the preliminary survey of the proposed highway from Whitecourt to Valleyview.

The enviable and rapid progress of our Province in recent years made the aerial survey essential and through it a new service is now available to all. The fact that this responsibility was added to this Division at a time when trained personnel was practically non-existent in the West, added a little to the difficulties, but steady perseverance has resulted in setting up a small and efficient organization which will expand with the demands of the times.

#### GENERAL

Draughting and the checking of various types of plans, the preparation of legal descriptions and incidental computations of areas disposed of by the Department still maintained a steady volume.

Map sales are on the increase and the photostat machine kept a steady pace supplying the requirements of our own Department, the Department of Mines and Minerals, and other government departments.

Through the industry and co-operation of a loyal staff 1950 can be regarded as another successful year.

## Accounting Division

### REPORT OF THE ADMINISTRATIVE ACCOUNTANT,

A. McCALLUM

A surplus of \$771,365.17 on income account was shown for the period ending March 31, 1951, a decrease of \$528,691.27 over the previous year. Gross receipts for the year amounted to \$4,815,876.93. Net revenue amounted to \$4,210,330.89.

Net revenue on income account was \$3,401,365.17 as compared to \$3,009,163.67 for the previous year. Main increases and decreases were as follows:

	Increase	Decrease
Fishing Licenses .....	\$ 8,513.55	\$ .....
Game Licenses .....	.....	11,028.56
Fur Tax .....	.....	19,437.24
Homestead Leases .....	.....	9,122.21
Public Lands Sales Interest .....	6,414.97	.....
Cultivation Leases .....	10,485.81	.....
Miscellaneous Leases .....	37,598.46	.....
Land Patent Miscellaneous .....	.....	12,548.39
Timber (Public Lands) .....	472,711.26	.....
School Land Sales Interest .....	6,170.60	.....
School Lands Leases, Berths, Etc. ....	.....	78,656.78
Unearned Increment Tax .....	.....	13,190.69
East Slope Surface Rights .....	13,783.41	.....
Photographic Survey .....	11,240.86	.....
Administration Sundry .....	13,959.65	.....
Reimbursement from Dominion .....	.....	46,307.21
Government re Eastern Rockies .....	.....	.....
Forest Conservation Board .....	.....	.....
Miscellaneous .....	1,614.01	.....
Net Revenue Increase .....	.....	892,201.50
	\$582,492.58	\$582,492.58

As at March 31, 1951, there were 13,346 active accounts receivable. There were 2,772 new accounts opened and 1,607 accounts closed or paid in full in the year under review. During the year there were 45,252 cash entries, for which 57,293 receipts and permits were issued.

In accordance with the Crown Cultivation Leases Act and the Grazing Lease Taxation Act, an amount of \$247,767.38 was refunded to the taxing authority.

Total expenditure on income account amounted to \$1,923,691.39, of which \$1,014,735.32 was for salaries.

Capital expenditure totaled \$755,167.71, of which \$363,322.01 was disbursed with respect to the clearing and breaking land settlement scheme, and \$386,287.10 disbursed in connection with the Photographic Survey Agreement.

Firefighting costs for the year amounted to \$260,052.39.

Bounties paid for the destruction of pests amounted to \$39,321.05.

The amount disbursed on "Surveys", including wages, was \$94,268.19.

Under the Eastern Rockies Forest Conservation Agreement, capital expenditure amounted to \$796,894.51, for which the

Province received full reimbursement from the Dominion. Maintenance costs were \$186,737.81, while the Province's revenue from East Slope Reserves amounted to \$237,504.88. As provided under the agreement the Province's surplus revenue over maintenance expenditure is refunded to the Dominion.

# INDEX TO STATEMENTS

- A. Statement of Receipts from All Sources.
- B. Statement of Receipts—Income Account.
- C. Statement of Receipts—Capital Account.
- D. Statement of Expenditure for the year ending  
March 31, 1951.
- E. Statement of Net Receipts by Branches.
- F. Statement of Receipts—School Lands.
- G. Alberta School Land Trust Fund.
- H. Alberta School Land Sales—Revenue Account.

## STATEMENT A

### STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1, 1950 to March 31, 1951

	Gross Receipts	Refunds	Net Receipts
Income Account .....	\$3,752,592.24	\$351,227.07	\$3,401,365.17
Capital Account .....	132,841.67	3,531.41	129,310.26
Reimbursement of Previous Year's Ex- penditure .....	1,212.05	.....	1,212.05
School Land Trust Fund .....	319,074.05	453.75	318,620.30
Homesteader's Compensation Trust .....	242.05	.....	242.05
UNAPPLIED RECEIPTS CARRIED FORWARD (Subject to Refund):			
Suspense .....	261,709.33	119,599.81	142,109.52
Tax Recovery .....	144,001.13	128,395.95	15,605.18
Improvements .....	12,070.55	2,338.05	9,732.50
Land Patent Cultivation Crop Share Land Patent Homestead Lease Crop Share .....	23,307.18	.....	23,307.18
School Lands Cultivation Crop Share .....	19,871.06	.....	19,871.06
Grazing Rentals, Fees, Etc. ....	26,938.67	.....	26,938.67
East Slope Road Tolls Trust Ac- count .....	69,473.05	.....	69,473.05
Revenue from Surface Rights on East Slope Reserves .....	43.83	.....	43.83
	52,500.07	.....	52,500.07
	\$4,815,876.93	\$605,546.04	\$4,210,330.89



## STATEMENT B

## STATEMENT OF RECEIPTS—INCOME ACCOUNT

From April 1, 1950 to March 31, 1951

## INCOME ACCOUNT:

	Gross Receipts	Refunds	Net Receipts
<b>FISHERIES ACT:</b>			
Fishing Licenses .....	\$ 62,803.05	\$ 12.10	\$ 62,790.95
Fisheries Miscellaneous .....	2,516.20		2,516.20
Fisheries Royalty .....	12,782.98	74.79	12,708.19
<b>GAME ACT:</b>			
Game Licenses .....	213,112.86	252.35	212,860.51
Fur Tax .....	99,161.92	1,932.54	97,229.38
Game Branch Miscellaneous .....	1,355.21	237.87	1,117.34
<b>LANDS AND GRAZING:</b>			
Grazing Leases, Permits, Etc. ....	431,239.83	93,070.75	338,169.08
Hay Permits, Fees and Dues .....	10,271.70	768.50	9,503.20
Homestead Leases .....	85,801.39	57,818.23	27,983.16
Provincial Land Sales Interest .....	8,213.56		8,213.56
Cultivation Leases, Permits, Etc. ....	51,656.62	25,275.60	26,381.02
Miscellaneous Leases .....	43,796.10	522.70	43,273.40
Land Patent Miscellaneous .....	27,831.54	873.54	26,958.00
<b>TIMBER:</b>			
Timber Fees, Rent, Dues, Etc. ....	2,087,620.68	57,719.06	2,029,901.62
<b>SCHOOL LANDS:</b>			
School Land Sales Interest .....	30,056.66		30,056.66
School Land Leases, Berths, Permits .....	332,169.73	98,831.01	233,338.72
<b>UNEARNED INCREMENT TAX:</b> .....	1,300.78	7.50	1,293.28
<b>EAST SLOPE SURFACE RIGHTS REV- ENUE:</b> .....	192,829.43	7,691.25	185,138.18
<b>MISCELLANEOUS:</b>			
Administration Sundry .....	40,757.60	833.74	39,923.86
Photographic Survey .....	12,009.66	.80	12,008.86
Reimbursement from Dominion Gov- ernment re Eastern Rockies Conservation Board .....	5,304.74	5,304.74	
<b>TOTAL INCOME ACCOUNT (Carried to Statement A)</b> .....	<b>\$3,752,592.24</b>	<b>\$351,227.07</b>	<b>\$3,401,365.17</b>

## STATEMENT C

## STATEMENT OF RECEIPTS—CAPITAL ACCOUNT

From April 1, 1950 to March 31, 1951

	Gross Receipts	Refunds	Net Receipts
Land Sales Principal .....	\$112,118.26	\$1,570.54	\$110,547.72
Clearing and Breaking Project— Seed Grain Principal .....	127.00		127.00
Clearing and Breaking Project— Crop Share .....	20,596.41	1,960.87	18,635.54
	132,841.67	3,531.41	129,310.26



Government of the Province of Alberta  
LANDS AND FORESTS DEPARTMENT  
EXPENDITURE CLASSIFIED BY APPROPRIATIONS AND CHARACTER  
For the Year Ended March 31, 1951  
INCOME ACCOUNT

Service	1901 Minister's Office	1902 Deputy Minister's Office	1903 Accounts Division	1904 Advisory Board	1905 Destruction of Pests	1906 Eastern Rockies Forest Conservation	1907 Fisheries Division	1909 Forest Protection and Timber Operation Division	1910 Forest Survey Division	1911 Forest and Prairie Fires Sup- pression Act	1912 Game Division	1913 Eastern Rockies Forest Conservation Board	1914 Lands Division	1915 Parks Division	1916 Radio Communica- tions	1917 Surveys Division	1918 Registration Division	1919 Postage	S.W. 33/50-51 Medical examinations of forestry officers	Totals
Advertising .....	\$	\$	\$	\$	\$	\$ 1,016.61	\$ 13.32	\$ 3,548.54	\$	\$ 25.74	\$	\$	\$ 3,337.46	\$	\$	\$ 29.16	\$	\$	\$	\$ 12,970.83
Automobiles .....		1,615.58				1,988.81	12,267.01	20,968.99			12,327.27		6,362.72		3,803.78	4,572.48				63,906.64
Books and binding .....		322.32	27.10				30.30	15.50	22.47		13.77		19.40		4.82	24.92	382.76			863.36
Bounties for destruction of pests .....					39,321.05															39,321.05
Buildings and sites .....							405.26	18,307.98			5,275.90			655.20		890.18				25,534.62
Cinema and photographic supplies .....							20.00	117.00												137.00
Clothing .....						473.34	1,079.65	4,300.77			252.35									6,106.11
Construction contracts .....													1,457.28			5,432.40				6,889.68
Equipment .....		156.28	5,721.00			244.83	5,523.15	20,164.14	1,670.20		1,949.74		2,590.22	129.99	5,022.18	13,284.87	3,578.50			63,035.10
Feed and seed .....						439.48		264.34			56.39		88.00	67.48						915.69
Fees and commissions .....							3.87	83.55			45.98		83.63							217.03
Fencing .....													96.00							96.00
Freight, express and cartage .....		11.88	2.92			395.82	341.20	2,685.21	8.43		702.58		61.32	93.00	795.47	883.17	241.64			6,217.64
Heating, Lighting and power .....						383.36	956.02	1,531.80			560.10		2.00	7.13	67.16					3,507.57
Laundry and cleaning .....							40.80													40.80
Legal fees and expenses .....		10.00											59.50							69.50
Medical services .....																		55.00		55.00
Miscellaneous expenses and supplies .....		32.69	7.98			1,789.42	742.86	2,607.24	87.30	14.27	8,171.00		301.92	848.52	1,288.56	445.07	56.67			16,393.50
Newspapers and periodicals .....	23.65	18.00					12.44	9.76							20.00					83.85
Postage .....	60.00					726.00	70.00	670.00			50.00		122.98		80.00			11,092.92		12,871.90
Printing, stationery and office supplies ..	13.27	721.06	1,994.41			671.02	3,613.57	5,803.56	316.42		3,735.37		7,550.48		591.96	7,622.10	2,339.92			34,973.14
Rates, rentals and insurance .....		177.47				2,773.24	1,472.23	1,828.76	136.76		1,006.41		818.25	33.18	1,512.06	69.27	483.48			10,382.43
Repairs and replacements .....	100.41	805.12	881.81			11,461.43	8,662.96	30,450.11	350.55		3,546.63		458.11	4,959.56	7,013.77	6,114.13	266.51			75,266.44
Salaries .....	5,557.16	28,898.28	73,565.32			146,675.27	64,661.20	305,567.00	19,021.63		49,691.36	6,643.03	142,756.99	2,924.47	67,240.91	49,099.00	52,433.70			1,014,735.32
Special services .....							581.04	1,180.00							5,086.01					6,847.05
Surveys .....							281.15				335.05					2,687.80				3,004.00
Telegrams and telephones .....	301.13	530.95	113.92			719.96	566.03	973.88	34.55		583.77	42.20	664.62		962.31	46.66	23.43			5,663.41
Travelling expenses .....	199.46	1,722.20	132.77	899.59		10,449.98	22,007.00	54,717.00	2,643.47	4,146.59	12,737.86	1,022.34	21,143.55	2,465.67	2,545.66	1,113.28	400.64		60.40	138,407.46
Wages .....						4,856.24	3,548.31	9,267.75	4,318.02	255,865.79	4,274.93		749.35	146.70	371.89	11,580.39				294,979.37
TOTAL: Income Account .....	\$ 6,255.08	\$ 35,021.83	\$ 82,447.23	\$ 899.59	\$ 39,321.05	\$ 185,004.81	\$ 129,899.37	\$ 483,882.88	\$ 29,784.80	\$ 260,052.39	\$ 105,316.46	\$ 8,242.00	\$ 198,220.23	\$ 14,385.11	\$ 90,420.89	\$ 183,122.10	\$ 60,207.25	\$ 11,092.92	\$ 115.40	\$ 1,923,691.39

CAPITAL ACCOUNT

Service	1980 Land Settlement, Clearing and Breaking Land	1981 Eastern Rockies Forest Conservation	1982 Aerial Photography and Forest Inventory	Totals
Clearing and breaking land .....	\$ 363,322.01	\$	\$	\$ 363,322.01
Freight, express and cartage .....	.70			.70
Miscellaneous expenses .....	112.00	133.37		245.37
Rates, rentals and insurance .....	65.07			65.07
Repairs and replacements .....	280.45			280.45
Salaries .....	3,129.75			3,129.75
Surveys .....			386,287.10	386,287.10
Travelling Expenses .....	1,887.26			1,887.26
TOTAL: Capital Account....	\$ 368,747.24	\$ 133.37	\$ 386,287.10	\$ 755,167.71



## STATEMENT E

**STATEMENT OF NET RECEIPTS BY BRANCHES**  
**For the Fiscal Years Ending March 31, 1950 and March 31, 1951**

	Fiscal Year Ending March 31, 1950	Fiscal Year Ending March 31, 1951
<b>INCOME ACCOUNT:</b>		
Fisheries Branch .....	\$ 67,728.80	\$ 78,015.34
Game Branch .....	342,370.78	311,207.23
Lands and Grazing Branch .....	446,514.66	480,481.42
Timber Branch .....	1,557,190.36	2,029,901.62
Unearned Increment Tax .....	14,483.97	1,293.28
School Lands .....	335,881.56	263,395.38
East Slope Surface Rights .....	171,354.77	185,138.18
Clearing and Breaking Project—		
Seed Grain Interest .....	112.73	.....
Miscellaneous .....	73,526.04	51,932.72
<b>CAPITAL ACCOUNT:</b>		
Land Sales Principal .....	84,527.02	110,547.72
Clearing and Breaking Project—		
Seed Grain Principal .....	3,883.33	127.00
Clearing and Breaking Project—		
Crop Share .....	28,657.62	18,635.54
TRANSFERRED TO OTHER DEPARTMENTS .....	6,232.15	1,212.05
SCHOOL LAND TRUST FUND .....	255,010.09	318,620.30
HOMESTEADER'S COMPENSATION TRUST .....	470.25	242.05
<b>UNAPPLIED RECEIPTS CARRIED FORWARD:</b>		
Suspense .....	94,786.23	157,714.70
Improvements .....	3,629.85	9,732.50
Land Patent Cultivation Crop Share .....	3,477.85	23,307.18
Land Patent Homestead Lease Crop Share .....	10,797.58	19,871.06
School Lands Cultivation Crop Share .....	16,856.29	26,938.67
Grazing Rentals, Fees, Etc. ....	37,583.08	69,473.05
East Slope Road Tolls Trust Account .....	.....	43.83
East Slope Surface Rights .....	.....	52,500.07
	\$3,555,075.01	\$4,210,330.89

## STATEMENT F

**STATEMENT OF RECEIPTS—SCHOOL LANDS**  
**From April 1, 1950 to March 31, 1951**

	Gross Receipts	Refunds	Net Revenue
<b>INCOME ACCOUNT:</b>			
	\$	\$	\$
School Lands Sales Interest .....	30,056.66	.....	30,056.66
School Lands Grazing Lease Rentals, Etc. ....	51,909.15	6,845.29	45,063.86
School Lands Hay Permits, Fees, and Dues .....	2,143.30	139.50	2,003.80
School Lands Cultivation Rentals, Fees, Etc. ....	194,730.56	84,886.10	109,844.46
School Lands Timber Rentals, Fees, Dues, Etc. ....	73,066.75	3,599.37	69,467.38
School Lands Miscellaneous Leases .....	3,712.19	33.22	3,678.97
School Lands Miscellaneous Revenue .....	6,607.78	3,327.53	3,280.25
	362,226.39	98,831.01	263,395.38
<b>TRUST ACCOUNT:</b>			
School Lands Sales Principal .....	319,074.05	453.75	318,620.30
	\$681,300.44	\$99,284.76	\$582,015.68

## STATEMENT G

## ALBERTA SCHOOL LAND TRUST FUND

## Balance Sheet—March 31, 1951

As at March 31, 1951, the fund amounted to  
\$13,451,344.97 made up as follows:

Cash .....		\$	31,969.87
Accounts Receivable .....			93,857.07
Debentures of the Dominion of Canada:			
(a) Issued in settlement of the sum standing to the credit of the fund when the natural re- sources were transferred to the Province on October, 1930 .....	\$9,564,569.20		
(b) Purchased by the Province since October 1, 1930 from payments of principal on school land sales, book value .....	2,651,386.71		
			<u>\$12,215,955.91</u>
Unpaid principal on school land sales:			
(a) Not due .....	1,071,667.09		
Due or in arrears .....	37,895.03		
			<u>\$ 1,109,562.12</u>
			<u>\$13,451,344.97</u>

## STATEMENT H

## ALBERTA SCHOOL LAND SALES—REVENUE ACCOUNT

## From April 1, 1950 to March 31, 1951

Arrears Interest as at March 31, 1950 .....	\$10,204.81	
Interest Charges .....	35,155.88	
Interest Revenue .....		\$30,056.66
Interest Written Off—Re Cancelled Sales .....		527.73
Arrears Interest as at March 31, 1951 .....		14,776.30
	<u>\$45,360.69</u>	<u>\$45,360.69</u>

## Registration Division

### REPORT OF THE REGISTRAR,

C. B. KENWAY

The work of the Division was roughly 25% greater during the past year than for the previous one. A comparison of incoming and outgoing mail for the two years is as follows:

Year	Incoming	Outgoing	Total
1950-51 .....	121,873	220,041	341,914
1949-50 .....	98,545	173,546	272,091
Difference .....	23,328	46,495	69,823

Although these figures reflect the mail going through the mail cage, the amount of work entailed in each section of the division, and the department, varies considerably on the type of mail having to be processed. For example, a comparison of certain items in the records section of the division shows little change, except for forestry items:

Item	1950-51	1949-50	Difference
Assignments registered .....	362	356	6
Notifications for patents .....	403	407	-4
Timber berth applications .....	651	220	431
Forestry reservations .....	633	489	144
Accrued area leases entered .....	141	130	11
Accrued area leases cancelled .....	74	86	-12
Homestead leases (Civilian) entered .....	1,156	992	164
Homestead leases (Civilian) cancelled .....	359	252	107
Homestead leases (Veteran) entered .....	334	252	82
Homestead leases (Veteran) cancelled .....	211	100	111
Licenses of occupation entered .....	46	10	36
Licenses of occupation cancelled .....	5	6	-1
Miscellaneous leases entered .....	28	18	10
Miscellaneous leases cancelled .....	17	15	2
Cultivation leases entered .....	59	122	-63
Cultivation leases cancelled .....	74	80	-6
Public land sales entered .....	200	269	-69
Public land sales cancelled .....	4	0	4
Road allowances leases entered .....	232	113	169
Road allowances leases cancelled .....	1	1	0

From the above, the work of entering in the township registers, on an acreage basis, was about 25% greater than in the previous year, and consistent with the 24% increase in the incoming mail.

On the other hand, a 24% increase in the incoming mail created a 61% increase in the number of new files opened in the file section as follows:

Kind of File	1950-51	1949-50	Total in Force March 31 1951
General lands .....	3,922	2,218	122,442
Land personals .....	1,910	1,358	8,139
Grazing .....	156	130	10,685
School lands .....	568	428	14,988
Right of entry .....	155	85	480
Cabin files .....	56	16	610
Road allowances .....	670	532	1,202
Timber .....	1,230	443	12,948
Timber personals .....	2,738	1,399	10,781
Timber sales .....	45	473	518
	11,450	7,082	182,793

Around the middle of the year two RE-1 Recordak microfilm machines replaced the older belt machines. Although some trouble was experienced in getting them to operate successfully, the staff ran through 745 films as against 490 for the previous year and 215 for the year before that.

The RE-1 machines average about 3,300 shots on each 100-foot film, as against 2,200 shots filmed on the former machines. Thus, considerably more files are photographed.

It is estimated, that at current rental rates, the savings in office space by microfilming is around \$10,000.00 annually.

Insofar as the Registration of Assignments of Crown Lands Act is concerned, it has now reached the point where revenue is less than the cost of administration.

During the last three months of the fiscal year, a methods and procedure section was formed within this division, with the purpose of streamlining office procedures throughout the Department. At the time of writing, the data collected suggest that a considerable number of improvements can be made in this direction.





